

Roberto Scaffaro

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175
papers

4,851
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40
h-index

57
g-index

179
ext. papers

5,559
ext. citations

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avg, IF

6.25
L-index

#	Paper	IF	Citations
175	Study on carvacrol and cinnamaldehyde polymeric films: mechanical properties, release kinetics and antibacterial and antibiofilm activities. <i>Applied Microbiology and Biotechnology</i> , 2012 , 96, 1029-38	5.7	119
174	CuO nanoparticle filled vinyl-ester resin nanocomposites: Fabrication, characterization and property analysis. <i>Composites Science and Technology</i> , 2007 , 67, 2036-2044	8.6	115
173	Degradation of polymer blends: A brief review. <i>Polymer Degradation and Stability</i> , 2017 , 145, 79-92	4.7	104
172	Particle surface engineering effect on the mechanical, optical and photoluminescent properties of ZnO/vinyl-ester resin nanocomposites. <i>Journal of Materials Chemistry</i> , 2007 , 17, 806-813		103
171	Degradation and Recycling of Films Based on Biodegradable Polymers: A Short Review. <i>Polymers</i> , 2019 , 11,	4.5	99
170	Polysaccharide nanocrystals as fillers for PLA based nanocomposites. <i>Cellulose</i> , 2017 , 24, 447-478	5.5	96
169	PLA graphene nanoplatelets nanocomposites: Physical properties and release kinetics of an antimicrobial agent. <i>Composites Part B: Engineering</i> , 2017 , 109, 138-146	10	93
168	Electrospun PCL/GO-g-PEG structures: Processing-morphology-properties relationships. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 92, 97-107	8.4	88
167	Effect of adding wood flour to the physical properties of a biodegradable polymer. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 503-513	8.4	84
166	PLA based biocomposites reinforced with Arundo donax fillers. <i>Composites Science and Technology</i> , 2014 , 105, 110-117	8.6	80
165	A green method to prepare nanosilica modified graphene oxide to inhibit nanoparticles re-aggregation during melt processing. <i>Chemical Engineering Journal</i> , 2017 , 308, 1034-1047	14.7	78
164	Preparation of three-layered porous PLA/PEG scaffold: relationship between morphology, mechanical behavior and cell permeability. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 54, 8-20	4.1	76
163	Physical properties of virgin-recycled ABS blends: Effect of post-consumer content and of reprocessing cycles. <i>European Polymer Journal</i> , 2012 , 48, 637-648	5.2	76
162	Formulation, characterization and optimization of the processing condition of blends of recycled polyethylene and ground tyre rubber: Mechanical and rheological analysis. <i>Polymer Degradation and Stability</i> , 2005 , 90, 281-287	4.7	70
161	A novel approach to prevent graphene oxide re-aggregation during the melt compounding with polymers. <i>Composites Science and Technology</i> , 2015 , 119, 131-137	8.6	68
160	Reactive compatibilization of PA6/LDPE blends with an ethyleneacrylic acid copolymer and a low molar mass bis-oxazoline. <i>Polymer</i> , 2003 , 44, 6951-6957	3.9	65
159	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. <i>Polymers</i> , 2017 , 9,	4.5	63

158	PLA based biocomposites reinforced with Posidonia oceanica leaves. <i>Composites Part B: Engineering</i> , 2018 , 139, 1-11	10	59
157	Advanced piezoresistive sensor achieved by amphiphilic nanointerfaces of graphene oxide and biodegradable polymer blends. <i>Composites Science and Technology</i> , 2018 , 156, 166-176	8.6	57
156	Combining in the melt physical and biological properties of poly(caprolactone) and chlorhexidine to obtain antimicrobial surgical monofilaments. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 99-109	5.7	56
155	Preparation, characterization and hydrolytic degradation of PLA/PCL co-mingled nanofibrous mats prepared via dual-jet electrospinning. <i>European Polymer Journal</i> , 2017 , 96, 266-277	5.2	56
154	Synthesis and self-assembly of a PEGylated-graphene aerogel. <i>Composites Science and Technology</i> , 2016 , 128, 193-200	8.6	54
153	Preparation and Recycling of Plasticized PLA. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 141-150	3.50	51
152	Integration of PCL and PLA in a monolithic porous scaffold for interface tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 63, 303-313	4.1	51
151	Compatibilized polyamide 6/polyethylene blend/clay nanocomposites: Effect of the degradation and stabilization of the clay modifier. <i>Polymer Degradation and Stability</i> , 2008 , 93, 1267-1274	4.7	50
150	Physical properties of green composites based on poly-lactic acid or Mater-Bi filled with Posidonia Oceanica leaves. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 112, 315-327	8.4	49
149	Perfluorocarbons/graphene oxide nanoplatelets as biocompatible oxygen reservoirs. <i>Chemical Engineering Journal</i> , 2018 , 334, 54-65	14.7	47
148	A facile method to determine pore size distribution in porous scaffold by using image processing. <i>Micron</i> , 2015 , 76, 37-45	2.3	47
147	Plasma Functionalization of Multiwalled Carbon Nanotubes and Their Use in the Preparation of Nylon 6-Based Nanohybrids. <i>Plasma Processes and Polymers</i> , 2012 , 9, 503-512	3.4	47
146	Recycling of dry and wet polyamide 6. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 1899-1903	2.9	47
145	Efficacy of poly(lactic acid)/carvacrol electrospun membranes against Staphylococcus aureus and Candida albicans in single and mixed cultures. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 4171-4181	5.71	46
144	Morphology and Properties of Polyethylene/Clay Nanocomposite Drawn Fibers. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 83-91	3.9	46
143	Reprocessing of PLA/Graphene Nanoplatelets Nanocomposites. <i>Polymers</i> , 2017 , 10,	4.5	45
142	Development and characterization of essential oil component-based polymer films: a potential approach to reduce bacterial biofilm. <i>Applied Microbiology and Biotechnology</i> , 2013 , 97, 9515-23	5.7	44
141	Antimicrobial additives for poly(lactic acid) materials and their applications: current state and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 7739-7756	5.7	43

140	Effect of kind and content of organo-modified clay on properties of PET nanocomposites. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 384-392	2.9	43
139	Mechanical behavior of polylactic acid/polycaprolactone porous layered functional composites. <i>Composites Part B: Engineering</i> , 2016 , 98, 70-77	10	42
138	Effect of Graphene Nanoplatelets on the Physical and Antimicrobial Properties of Biopolymer-Based Nanocomposites. <i>Materials</i> , 2016 , 9,	3.5	41
137	Effect of graphene and fabrication technique on the release kinetics of carvacrol from polylactic acid. <i>Composites Science and Technology</i> , 2019 , 169, 60-69	8.6	41
136	Comparison of different processing methods to prepare poly(lactid acid)/Hydrotalcite composites. <i>Polymer Engineering and Science</i> , 2014 , 54, 1804-1810	2.3	40
135	Effects of organoclay on morphology and properties of nanocomposites based on LDPE/PA-6 blends without and with SEBS-g-MA compatibilizer. <i>Polymer Engineering and Science</i> , 2009 , 49, 1187-1197	7.3	40
134	Control of biofilm formation by poly-ethylene-co-vinyl acetate films incorporating nisin. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 729-37	5.7	40
133	Structure-property relationship of PLA-Opuntia Ficus Indica biocomposites. <i>Composites Part B: Engineering</i> , 2019 , 167, 199-206	10	40
132	Melt Processed PCL/PEG Scaffold With Discrete Pore Size Gradient for Selective Cellular Infiltration. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 182-190	3.9	39
131	Statistical Study of the Influence of CNTs Purification and Plasma Functionalization on the Properties of Polycarbonate-CNTs Nanocomposites. <i>Plasma Processes and Polymers</i> , 2014 , 11, 664-677	3.4	39
130	New Polylactic Acid Composites Reinforced with Artichoke Fibers. <i>Materials</i> , 2015 , 8, 7770-7779	3.5	39
129	Synthesis of a fluorinated graphene oxide/silica nanohybrid: improving oxygen affinity. <i>RSC Advances</i> , 2016 , 6, 46037-46047	3.7	37
128	Processing, structure, property relationships and release kinetics of electrospun PLA/Carvacrol membranes. <i>European Polymer Journal</i> , 2018 , 100, 165-171	5.2	36
127	Enhancing the mechanical performance of polymer based nanocomposites by plasma-modification of nanoparticles. <i>Polymer Testing</i> , 2012 , 31, 889-894	4.5	36
126	High performance PA6/CNTs nanohybrid fibers prepared in the melt. <i>Composites Science and Technology</i> , 2012 , 72, 1918-1923	8.6	36
125	Processing [morphology] property relationships of polyamide 6/polyethylene blend/clay nanocomposites. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 873-884	3.4	36
124	Optimization of two-step techniques engineered for the preparation of polyamide 6 graphene oxide nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 165, 55-64	10	34
123	Mechanical behaviour of Mater-Bi /wood flour composites: A statistical approach. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1537-1546	8.4	33

122	Plasma modified PLA electrospun membranes for actinorhodin production intensification in <i>Streptomyces coelicolor</i> immobilized-cell cultivations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 233-241	6	31
121	Experimental analysis and micromechanical models of high performance renewable agave reinforced biocomposites. <i>Composites Part B: Engineering</i> , 2017 , 119, 141-152	10	31
120	Integrated ternary bionanocomposites with superior mechanical performance via the synergistic role of graphene and plasma treated carbon nanotubes. <i>Composites Part B: Engineering</i> , 2019 , 168, 550-559	10	31
119	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 428-438	5.7	31
118	Biodegradation paths of Mater-Bi /kenaf biodegradable composites. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 3198-3208	2.9	31
117	PVC silver zeolite composites with antimicrobial properties. <i>Journal of Materials Science</i> , 2011 , 46, 6734-6743	4.3	31
116	Preparation and characterization of polyamide 6/polyethylene blend-clay nanocomposites in the presence of compatibilisers and stabilizing system. <i>Polymer Degradation and Stability</i> , 2010 , 95, 2547-2554	4.7	31
115	Polycaprolactone-based scaffold for oil-selective sorption and improvement of bacteria activity for bioremediation of polluted water. <i>European Polymer Journal</i> , 2017 , 91, 260-273	5.2	29
114	Effect of the processing techniques on the properties of eco-composites based on vegetable oil-derived Mater-Bi and wood flour. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 2855-2863	2.9	29
113	Degradation of Mater-Bi /wood flour biocomposites in active sewage sludge. <i>Polymer Degradation and Stability</i> , 2009 , 94, 1220-1229	4.7	29
112	Effect of different matrices and nanofillers on the rheological behavior of polymer-clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 344-355	2.6	29
111	Photo-oxidative degradation of poly(ethylene-co-vinyl acetate)/nisin antimicrobial films. <i>Polymer Degradation and Stability</i> , 2012 , 97, 653-660	4.7	27
110	Rheological and mechanical behavior of LDPE/calcium carbonate nanocomposites and microcomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2544-2552	2.9	27
109	Development of polymeric functionally graded scaffolds: a brief review. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2017 , 15, e107-e121	1.8	27
108	Surface modification of poly(ethylene-co-acrylic acid) with amino-functionalized silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3849		27
107	The performance of thin-film Li-ion batteries under flexural deflection. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2714-2721	2	27
106	Influence of Oxidation Level of Graphene Oxide on the Mechanical Performance and Photo-Oxidation Resistance of a Polyamide 6. <i>Polymers</i> , 2019 , 11,	4.5	26
105	Preparation and Characterization of Polyolefin-Based Nanocomposite Blown Films for Agricultural Applications. <i>Macromolecular Materials and Engineering</i> , 2009 , 294, 445-454	3.9	26

104	Reprocessing and restabilization of greenhouse films. <i>Polymer Degradation and Stability</i> , 2002 , 75, 459-464	4.4	26
103	Lignocellulosic fillers and graphene nanoplatelets as hybrid reinforcement for polylactic acid: Effect on mechanical properties and degradability. <i>Composites Science and Technology</i> , 2020 , 190, 108008	8.6	26
102	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 2054-2064	5.7	25
101	Incorporation of nisin in poly (ethylene-co-vinyl acetate) films by melt processing: a study on the antimicrobial properties. <i>Journal of Food Protection</i> , 2011 , 74, 1137-43	2.5	25
100	Processing and Properties of Biopolymer/Polyhydroxyalkanoates Blends. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 267-272	4.5	24
99	Tunable release of Chlorhexidine from Polycaprolactone-based filaments containing graphene nanoplatelets. <i>European Polymer Journal</i> , 2019 , 110, 221-232	5.2	24
98	Properties-morphology relationships in electrospun mats based on polylactic acid and graphene nanoplatelets. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 108, 23-29	8.4	23
97	On the Preparation and Characterization of Polyethylene/Polyamide Blends by Melt Processing in the Presence of an Ethylene/Acrylic Acid Copolymer and of New Phosphazene Compounds. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1986-1997	2.6	23
96	Rapid One-Step Fabrication of Graphene Oxide-Decorated Polycaprolactone Three-Dimensional Templates for Water Treatment. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 4993-5005	4.3	23
95	Effect of temperature on the release of carvacrol and cinnamaldehyde incorporated into polymeric systems to control growth and biofilms of Escherichia coli and Staphylococcus aureus. <i>Biofouling</i> , 2015 , 31, 639-49	3.3	22
94	Using Taguchi method for the optimization of processing variables to prepare porous scaffolds by combined melt mixing/particulate leaching. <i>Materials and Design</i> , 2017 , 131, 334-342	8.1	22
93	Effect of heating of organo-montmorillonites under different atmospheres. <i>Applied Clay Science</i> , 2009 , 45, 185-193	5.2	22
92	Oxazoline-containing compatibilizers for polyamide/SAN and polyamide/ABS blends. <i>Journal of Applied Polymer Science</i> , 2002 , 86, 449-455	2.9	22
91	Processing-structure-property relationships of electrospun PLA-PEO membranes reinforced with enzymatic cellulose nanofibers. <i>Polymer Testing</i> , 2020 , 81, 106182	4.5	22
90	Innovative, ecofriendly biosorbent-biodegrading biofilms for bioremediation of oil- contaminated water. <i>New Biotechnology</i> , 2020 , 58, 25-31	6.4	21
89	Structure-properties relationships in melt reprocessed PLA/hydroxycalcites nanocomposites. <i>EXPRESS Polymer Letters</i> , 2017 , 11, 555-564	3.4	21
88	Influence of Drawing on the Antimicrobial and Physical Properties of Chlorhexidine-Compounded Poly(caprolactone) Monofilaments. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 1268-1277	3.9	21
87	3D polylactide-based scaffolds for studying human hepatocarcinoma processes. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 045003	7.1	21

86	Rheological Response of Polyethylene/Clay Nanocomposites to Annealing Treatment. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 2533-2541	2.6	21
85	New phosphazene-based chain extenders containing allyl and epoxide groups. <i>Designed Monomers and Polymers</i> , 2003 , 6, 245-266	3.1	21
84	On the use of PET-LCP copolymers as compatibilizers for PET/LCP blends. <i>Polymer Engineering and Science</i> , 1996 , 36, 1244-1255	2.3	21
83	A new equipment to measure the combined effects of humidity, temperature, mechanical stress and UV exposure on the creep behaviour of polymers. <i>Polymer Testing</i> , 2008 , 27, 49-54	4.5	20
82	Biopolymeric bilayer films produced by co-extrusion film blowing. <i>Polymer Testing</i> , 2018 , 65, 35-43	4.5	20
81	Performance of Thin-Film Lithium Energy Cells under Uniaxial Pressure. <i>Advanced Engineering Materials</i> , 2008 , 10, 393-399	3.5	19
80	A simple method to interpret the rheological behaviour of intercalated polymer nanocomposites. <i>Composites Part B: Engineering</i> , 2016 , 98, 382-388	10	19
79	Graphene Oxide Carboxymethylcellulose Nanocomposite for Dressing Materials. <i>Materials</i> , 2020 , 13,	3.5	18
78	Thermo-oxidative ageing of an organo-modified clay and effects on the properties of PA6 based nanocomposites. <i>Thermochimica Acta</i> , 2013 , 552, 37-45	2.9	18
77	Kenaf-filled biodegradable composites: rheological and mechanical behaviour. <i>Polymer International</i> , 2012 , 61, 1542-1548	3.3	18
76	Characterization of monopolymer blend of virgin and recycled polyamide 6. <i>Polymer Engineering and Science</i> , 2002 , 42, 2412-2417	2.3	18
75	Effect of adding new phosphazene compounds to poly(butylene terephthalate)/polyamide blends. I: Preliminary study in a batch mixer. <i>Polymer Degradation and Stability</i> , 2005 , 90, 234-243	4.7	18
74	Compatibilization of blends of polyethylene with a semirigid liquid crystalline polymer by PE-g-LCP copolymers. <i>Polymer Engineering and Science</i> , 1997 , 37, 1164-1170	2.3	17
73	Effects of filler type and mixing method on the physical properties of a reinforced semirigid liquid crystal polymer. <i>European Polymer Journal</i> , 1996 , 32, 869-875	5.2	17
72	Cyclophosphazenes as polymer modifiers. <i>Macromolecular Symposia</i> , 2003 , 196, 249-270	0.8	16
71	Effect of PCL/PEG-Based Membranes on Actinorhodin Production in <i>Streptomyces coelicolor</i> Cultivations. <i>Macromolecular Bioscience</i> , 2016 , 16, 686-93	5.5	16
70	Processing and characterization of highly oriented fibres of biodegradable nanocomposites. <i>Composites Part B: Engineering</i> , 2015 , 78, 1-7	10	15
69	PLA-based functionally graded laminates for tunable controlled release of carvacrol obtained by combining electrospinning with solvent casting. <i>Reactive and Functional Polymers</i> , 2020 , 148, 104490	4.6	15

68	Effect of small amounts of poly(lactic acid) on the recycling of poly(ethylene terephthalate) bottles. <i>Polymer Degradation and Stability</i> , 2011 ,	4.7	15
67	Competition between chain scission and branching formation in the processing of high-density polyethylene: Effect of processing parameters and of stabilizers. <i>Polymer Engineering and Science</i> , 2009 , 49, 1316-1325	2.3	15
66	Reliability and Fabrication of Molds for Nanoimprinting. <i>Current Nanoscience</i> , 2010 , 6, 1-11	1.4	15
65	Melt stabilization of wet polyamide 6. <i>Polymer Degradation and Stability</i> , 2002 , 75, 473-477	4.7	15
64	Oxazoline functionalization of polyethylenes and their blends with polyamides and polyesters. <i>Macromolecular Symposia</i> , 2001 , 176, 265-278	0.8	15
63	The Effects of Nanoclay on the Mechanical Properties, Carvacrol Release and Degradation of a PLA/PBAT Blend. <i>Materials</i> , 2020 , 13,	3.5	14
62	Synthesis of PP/LCP graft copolymers and their compatibilizing activity for PP/LCP blends. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 391-403	2.9	14
61	Effect of adding new phosphazene compounds to poly(butylene terephthalate)/polyamide blends. II: Effect of different polyamides on the properties of extruded samples. <i>Polymer Degradation and Stability</i> , 2006 , 91, 2265-2274	4.7	14
60	Reactive Compatibilization of PBT/EVA Blends with an Ethylene-Acrylic Acid Copolymer and a Low Molar Mass Bis-Oxazoline. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 1402-1409	2.6	14
59	Recycling of a starch-based biodegradable polymer. <i>Macromolecular Symposia</i> , 2002 , 180, 133-140	0.8	14
58	Green Composites Based on PLA and Agricultural or Marine Waste Prepared by FDM. <i>Polymers</i> , 2021 , 13,	4.5	14
57	Morphology and mechanical properties of extruded ribbons of LDPE/PA6 blends compatibilized with an ethylene-acrylic acid copolymer. <i>Macromolecular Symposia</i> , 2003 , 198, 173-182	0.8	13
56	On the modification of the nitrile groups of acrylonitrile/butadiene/styrene into oxazoline in the melt. <i>Journal of Polymer Science Part A</i> , 2000 , 38, 1795-1802	2.5	13
55	Structure-property relationship and controlled drug release from multiphasic electrospun carvacrol-embedded polylactic acid/polyethylene glycol and polylactic acid/polyethylene oxide nanofiber mats. <i>Journal of Industrial Textiles</i> , 2020 , 49, 943-966	1.6	13
54	Poly(lactic acid)/carvacrol-based materials: preparation, physicochemical properties, and antimicrobial activity. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 1823-1835	5.7	12
53	Prediction of the flow curves of thermoplastic polymer/clay systems from torque data. <i>Polymer Testing</i> , 2014 , 37, 12-18	4.5	12
52	Use of PP-g-OXA in the Compatibilization of PP/LCP Blends. <i>Molecular Crystals and Liquid Crystals</i> , 1999 , 336, 169-181		12
51	Antibacterial biopolymeric foams: Structure-property relationship and carvacrol release kinetics. <i>European Polymer Journal</i> , 2019 , 121, 109298	5.2	10

50	Effect of the additive level and of the processing temperature on the re-building of post-consumer pipes from polyethylene blends. <i>European Polymer Journal</i> , 2007 , 43, 2947-2955	5.2	10
49	Ionic tactile sensors as promising biomaterials for artificial skin: Review of latest advances and future perspectives. <i>European Polymer Journal</i> , 2021 , 151, 110421	5.2	10
48	Synchronizing the release rates of salicylate and indomethacin from degradable chitosan hydrogel and its optimization by definitive screening design. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 125, 102-109	5.1	10
47	Reactions Occurring during the Melt Mixing of Nylon 6 and OxazolineCyclophosphazene Units. <i>Macromolecules</i> , 2009 , 42, 5579-5592	5.5	9
46	Rheological Properties of Different Film Blowing Polyethylene Samples Under Shear and Elongational Flow. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 159-164	3.9	9
45	Reactive blending of a functionalized polyethylene with a semiflexible liquid crystalline copolyester. <i>Journal of Applied Polymer Science</i> , 1996 , 62, 1613-1625	2.9	9
44	Bending test for capturing the vivid behavior of giant reeds, returned through a proper fractional visco-elastic model. <i>Mechanics of Materials</i> , 2015 , 89, 159-168	3.3	8
43	Prediction of the morphology of polymer-clay nanocomposites. <i>Polymer Testing</i> , 2015 , 41, 149-156	4.5	8
42	Nanofilled ThermoplasticThermoplastic Polymer Blends 2014 , 133-160		8
41	A new route for the preparation of flexible skinore poly(ethylene-co-acrylic acid)/polyaniline functional hybrids. <i>Reactive and Functional Polymers</i> , 2011 , 71, 1177-1186	4.6	8
40	Evolution of the Morphology and Characterization of Compatibilized PBT/EVA Blends Prepared by Reactive Extrusion. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 265-272	2.6	8
39	Modification of EVOH copolymers with γ -caprolactone: synthesis and compatibilization effects in PE/PVC blends. <i>Macromolecular Symposia</i> , 2001 , 176, 233-244	0.8	8
38	An Overview of Functionalized Graphene Nanomaterials for Advanced Applications. <i>Nanomaterials</i> , 2021 , 11,	5.4	8
37	A Facile and Eco-friendly Route to Fabricate Poly(Lactic Acid) Scaffolds with Graded Pore Size. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	7
36	Modification of carboxyl groups of poly(ethylene-co-acrylic acid) via facile wet chemistry method: A kinetic study. <i>Reactive and Functional Polymers</i> , 2010 , 70, 189-200	4.6	7
35	On the effectiveness of different additives and concentrations on the re-building of the molecular structure of degraded polyethylene. <i>Polymer Degradation and Stability</i> , 2006 , 91, 3110-3116	4.7	7
34	Effect of an organoclay on the photochemical transformations of a PBAT/PLA blend and morpho-chemical features of crosslinked networks. <i>Polymer Degradation and Stability</i> , 2021 , 187, 109549	4.7	7
33	Bilayer biodegradable films prepared by co-extrusion film blowing: Mechanical performance, release kinetics of an antimicrobial agent and hydrolytic degradation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 132, 105836	8.4	6

32	Effect of the processing on the properties of biopolymer based composites filled with wood flour. <i>International Journal of Material Forming</i> , 2008 , 1, 759-762	2	6
31	Chemical Modification of Nitrile to Oxazoline Functionality on a Styrene-Acrylonitrile Copolymer in the Melt. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1998 , 35, 457-474	2.2	6
30	Green Composites Prepared by Compression Molding and Fused Deposition Modeling.. <i>Materials</i> , 2022 , 15,	3.5	6
29	Matrix and Filler Recycling of Carbon and Glass Fiber-Reinforced Polymer Composites: A Review. <i>Polymers</i> , 2021 , 13,	4.5	6
28	Collapsibility of metastable sand by non-conventional oedometer tests. <i>Granular Matter</i> , 2019 , 21, 1	2.6	6
27	Hydrolytic degradation of PLA/Posidonia Oceanica green composites: A simple model based on starting morpho-chemical properties. <i>Composites Science and Technology</i> , 2021 , 213, 108930	8.6	6
26	Characterization of a fiber reinforced semirigid liquid crystalline polymer. <i>Advances in Polymer Technology</i> , 1997 , 16, 227-236	1.9	5
25	An innovative route to prepare in situ graded crosslinked PVA graphene electrospun mats for drug release. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022 , 155, 106827	8.4	5
24	Flexible mats as promising antimicrobial systems via integration of (L.) essential oil into PLA. <i>Future Microbiology</i> , 2020 , 15, 1379-1392	2.9	5
23	Preparation and mechanical characterization of polycaprolactone/graphene oxide biocomposite nanofibers 2016 ,		5
22	Biopolymer based nanocomposites reinforced with graphene nanoplatelets 2016 ,		4
21	CYCLOPHOSPHAZENES AS VERSATILE SUBSTRATES IN POLYMER CHEMISTRY. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2004 , 179, 827-830	1	4
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