Debora Puglia

List of Publications by Year
in descending order

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212 papers	12,076 citations	17440 63 h-index	34986 98 g-index
218 all docs	218 docs citations	218 times ranked	10430 citing authors

#	Article	IF	Citations
1	Morphological, thermal and mechanical characterization of okra (Abelmoschus esculentus) fibres as potential reinforcement in polymer composites. Composites Science and Technology, 2010, 70, 116-122.	7.8	447
2	Antioxidant and antibacterial lignin nanoparticles in polyvinyl alcohol/chitosan films for active packaging. Industrial Crops and Products, 2016, 94, 800-811.	5.2	307
3	A Review on Natural Fibre-Based Compositesâ€"Part II. Journal of Natural Fibers, 2005, 1, 23-65.	3.1	301
4	A Review on Natural Fibre-Based Composites-Part I. Journal of Natural Fibers, 2004, 1, 37-68.	3.1	298
5	Polyvinyl alcohol/chitosan hydrogels with enhanced antioxidant and antibacterial properties induced by lignin nanoparticles. Carbohydrate Polymers, 2018, 181, 275-284.	10.2	228
6	Valorization of Acid Isolated High Yield Lignin Nanoparticles as Innovative Antioxidant/Antimicrobial Organic Materials. ACS Sustainable Chemistry and Engineering, 2018, 6, 3502-3514.	6.7	214
7	Synergic effect of cellulose and lignin nanostructures in PLA based systems for food antibacterial packaging. European Polymer Journal, 2016, 79, 1-12.	5.4	212
8	Microstructure and nonisothermal cold crystallization of PLA composites based on silver nanoparticles and nanocrystalline cellulose. Polymer Degradation and Stability, 2012, 97, 2027-2036.	5.8	193
9	Processing of nanostructured polymers and advanced polymeric based nanocomposites. Materials Science and Engineering Reports, 2014, 85, 1-46.	31.8	190
10	Production and characterization of PLA_PBS biodegradable blends reinforced with cellulose nanocrystals extracted from hemp fibres. Industrial Crops and Products, 2016, 93, 276-289.	5.2	186
11	Effect of chemical treatments on the mechanical and thermal behaviour of okra (Abelmoschus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.8	183
12	Structure and properties of biodegradable wheat gluten bionanocomposites containing lignin nanoparticles. Industrial Crops and Products, 2015, 74, 348-356.	5.2	174
13	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: Part I. Carbohydrate Polymers, 2013, 97, 825-836.	10.2	169
14	Morphology and properties tuning of PLA/cellulose nanocrystals bio-nanocomposites by means of reactive functionalization and blending with PVAc. Polymer, 2014, 55, 3720-3728.	3.8	168
15	Processing of PLA nanocomposites with cellulose nanocrystals extracted from Posidonia oceanica waste: Innovative reuse of coastal plant. Industrial Crops and Products, 2015, 67, 439-447.	5.2	165
16	Effect of cellulose and lignin on disintegration, antimicrobial and antioxidant properties of PLA active films. International Journal of Biological Macromolecules, 2016, 89, 360-368.	7.5	161
17	Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from Phormium tenax leaves. European Polymer Journal, 2014, 56, 77-91.	5.4	159
18	Mechanical characterisation of hybrid composite laminates based on basalt fibres in combination with flax, hemp and glass fibres manufactured by vacuum infusion. Materials & Design, 2013, 49, 728-735.	5.1	154

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19	Effect of processing conditions and lignin content on thermal, mechanical and degradative behavior of lignin nanoparticles/polylactic (acid) bionanocomposites prepared by melt extrusion and solvent casting. European Polymer Journal, 2015, 71, 126-139.	5.4	150
20	Ablative properties of carbon black and MWNT/phenolic composites: A comparative study. Composites Part A: Applied Science and Manufacturing, 2012, 43, 174-182.	7.6	143
21	Morphology and electrical properties of grapheneâ€“epoxy nanocomposites obtained by different solvent assisted processing methods. Composites Part A: Applied Science and Manufacturing, 2013, 46, 166-172.	7.6	143
22	Analysis of the cure reaction of carbon nanotubes/epoxy resin composites through thermal analysis and Raman spectroscopy. Journal of Applied Polymer Science, 2003, 88, 452-458.	2.6	137
23	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. Composites Part B: Engineering, 2015, 69, 507-515.	12.0	135
24	Cellulose nanocrystals extracted from okra fibers in PVA nanocomposites. Journal of Applied Polymer Science, 2013, 128, 3220-3230.	2.6	130
25	Poly(lactic acid)/lignin films with enhanced toughness and anti-oxidation performance for active food packaging. International Journal of Biological Macromolecules, 2020, 144, 102-110.	7.5	119
26	Effects of single-walled carbon nanotube incorporation on the cure reaction of epoxy resin and its detection by Raman spectroscopy. Diamond and Related Materials, 2003, 12, 827-832.	3.9	118
27	A systematic investigation on the influence of the chemical treatment of natural fibers on the properties of their polymer matrix composites. Polymer Composites, 2004, 25, 470-479.	4.6	115
28	Effect of silver nanoparticles and cellulose nanocrystals on electrospun poly(lactic) acid mats: Morphology, thermal properties and mechanical behavior. Carbohydrate Polymers, 2014, 103, 22-31.	10.2	114
29	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structureâ€“Property Relationship. Materials, 2019, 12, 471.	2.9	113
30	Cellulose nanocrystal based multifunctional nanohybrids. Progress in Materials Science, 2020, 112, 100668.	32.8	113
31	Thermal, antioxidant and swelling behaviour of transparent polyvinyl (alcohol) films in presence of hydrophobic citric acid-modified lignin nanoparticles. International Journal of Biological Macromolecules, 2019, 127, 665-676.	7.5	100
32	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of â€˜microâ€™ and â€˜nanoâ€™ scale. Materials Science and Engineering Reports, 2017, 116, 1-29.	31.8	99
33	Characterization of Composites Based on Natural and Glass Fibers Obtained by Vacuum Infusion. Journal of Composite Materials, 2005, 39, 265-282.	2.4	98
34	Extraction of Cellulose Nanocrystals from Phormium tenax Fibres. Journal of Polymers and the Environment, 2013, 21, 319-328.	5.0	98
35	Effect of organically modified nanoclay on the miscibility, rheology, morphology and properties of epoxy/carboxyl-terminated (butadiene-co-acrylonitrile) blend. Soft Matter, 2013, 9, 2899.	2.7	96
36	The role of irreversible and reversible phenomena in the piezoresistive behavior of graphene epoxy nanocomposites applied to structural health monitoring. Composites Science and Technology, 2013, 80, 73-79.	7.8	95

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37	Study of disintegrability in compost and enzymatic degradation of PLA and PLA nanocomposites reinforced with cellulose nanocrystals extracted from Posidonia Oceanica. Polymer Degradation and Stability, 2015, 121, 105-115.	5.8	95
38	Revalorization of sunflower stalks as novel sources of cellulose nanofibrils and nanocrystals and their effect on wheat gluten bionanocomposite properties. Carbohydrate Polymers, 2016, 149, 357-368.	10.2	94
39	Multifunctional lignin-based nanocomposites and nanohybrids. Green Chemistry, 2021, 23, 6698-6760.	9.0	93
40	Sidewall functionalization of single-walled carbon nanotubes through CF4 plasma treatment and subsequent reaction with aliphatic amines. Chemical Physics Letters, 2005, 403, 385-389.	2.6	92
41	Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres. Industrial Crops and Products, 2014, 56, 175-186.	5.2	90
42	Curing behavior of epoxy/Fe3O4 nanocomposites: A comparison between the effects of bare Fe3O4, Fe3O4/SiO2/chitosan and Fe3O4/SiO2/chitosan/imide/phenylalanine-modified nanofillers. Progress in Organic Coatings, 2018, 123, 10-19.	3.9	89
43	Reactive compatibilization of plant polysaccharides and biobased polymers: Review on current strategies, expectations and reality. Carbohydrate Polymers, 2019, 209, 20-37.	10.2	89
44	Protocol for nonisothermal cure analysis of thermoset composites. Progress in Organic Coatings, 2019, 131, 333-339.	3.9	87
45	Effect of lignin nanoparticles and masterbatch procedures on the final properties of glycidyl methacrylate- g -poly (lactic acid) films before and after accelerated UV weathering. Industrial Crops and Products, 2015, 77, 833-844.	5.2	84
46	EPDM based heat shielding materials for Solid Rocket Motors: AÂcomparative study of different fibrous reinforcements. Polymer Degradation and Stability, 2013, 98, 2131-2139.	5.8	83
47	Role of lignin nanoparticles in UV resistance, thermal and mechanical performance of PMMA nanocomposites prepared by a combined free-radical graft polymerization/masterbatch procedure. Composites Part A: Applied Science and Manufacturing, 2018, 107, 61-69.	7.6	83
48	Hyperbranched poly(ethyleneimine) physically attached to silica nanoparticles to facilitate curing of epoxy nanocomposite coatings. Progress in Organic Coatings, 2018, 120, 100-109.	3.9	83
49	Development and curing potential of epoxy/starch-functionalized graphene oxide nanocomposite coatings. Progress in Organic Coatings, 2018, 119, 194-202.	3.9	83
50	Nanocomposites Based on Biodegradable Polymers. Materials, 2018, 11, 795.	2.9	83
51	Preparation and properties of adhesives based on phenolic resin containing lignin micro and nanoparticles: A comparative study. Materials and Design, 2019, 161, 55-63.	7.0	82
52	Effect of Cellulose Nanocrystals and Lignin Nanoparticles on Mechanical, Antioxidant and Water Vapour Barrier Properties of Glutaraldehyde Crosslinked PVA Films. Polymers, 2020, 12, 1364.	4.5	82
53	Dielectric behavior of epoxy matrix/single-walled carbon nanotube composites. Composites Science and Technology, 2004, 64, 23-33.	7.8	81
54	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. European Polymer Journal, 2016, 80, 295-316.	5.4	80

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55	Revalorization of barley straw and husk as precursors for cellulose nanocrystals extraction and their effect on PVA_CH nanocomposites. Industrial Crops and Products, 2016, 92, 201-217.	5.2	79
56	Acid-aided epoxy-amine curing reaction as reflected in epoxy/Fe3O4 nanocomposites: Chemistry, mechanism, and fracture behavior. Progress in Organic Coatings, 2018, 125, 384-392.	3.9	77
57	Valorization and extraction of cellulose nanocrystals from North African grass: Ampelodesmos mauritanicus (Diss). Carbohydrate Polymers, 2019, 209, 328-337.	10.2	77
58	Effects of carbon nanotubes (CNTs) on the processing and in-vitro degradation of poly(dl-lactide-co-glycolide)/CNT films. Journal of Materials Science: Materials in Medicine, 2008, 19, 2377-2387.	3.6	73
59	Dynamics of amine functionalized nanotubes/epoxy composites by dielectric relaxation spectroscopy. Carbon, 2004, 42, 323-329.	10.3	72
60	Citric Acid as Green Modifier for Tuned Hydrophilicity of Surface Modified Cellulose and Lignin Nanoparticles. ACS Sustainable Chemistry and Engineering, 2018, 6, 9966-9978.	6.7	72
61	Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging. Polymers, 2019, 11, 1999.	4.5	71
62	Melt free radical grafting of glycidyl methacrylate (GMA) onto fully biodegradable poly(lactic) acid films: effect of cellulose nanocrystals and a masterbatch process. RSC Advances, 2015, 5, 32350-32357.	3.6	69
63	Processing, properties and stability of biodegradable composites based on Mater-BiÂ® and cellulose fibres. Polymers for Advanced Technologies, 2003, 14, 749-756.	3.2	68
64	Epoxy/layered double hydroxide (LDH) nanocomposites: Synthesis, characterization, and Excellent cure feature of nitrate anion intercalated Zn-Al LDH. Progress in Organic Coatings, 2019, 136, 105218.	3.9	67
65	The Opportunity of Valorizing Agricultural Waste, Through Its Conversion into Biostimulants, Biofertilizers, and Biopolymers. Sustainability, 2021, 13, 2710.	3.2	64
66	Synthesis, characterization and performance evaluation of Fe3O4/PES nano composite membranes for microbial fuel cell. European Polymer Journal, 2018, 99, 222-229.	5.4	61
67	Cure kinetics of epoxy/MWCNTs nanocomposites: Isothermal calorimetric and rheological analyses. Progress in Organic Coatings, 2017, 108, 75-83.	3.9	60
68	Enhancing the Radical Scavenging Activity and UV Resistance of Lignin Nanoparticles via Surface Mannich Amination toward a Biobased Antioxidant. Biomacromolecules, 2021, 22, 2693-2701.	5.4	60
69	Dynamic mechanical properties of oil palm microfibrilâ€reinforced natural rubber composites. Journal of Applied Polymer Science, 2010, 117, 1298-1308.	2.6	57
70	Effect of alkali and silane treatments on mechanical and thermal behavior of Phormium tenax fibers. Fibers and Polymers, 2013, 14, 423-427.	2.1	57
71	Use of plasma fluorinated single-walled carbon nanotubes for the preparation of nanocomposites with epoxy matrix. Composites Science and Technology, 2008, 68, 1008-1014.	7.8	56
72	Calorimetric analysis and molecular dynamics simulation of cure kinetics of epoxy/chitosan-modified Fe3O4 nanocomposites. Progress in Organic Coatings, 2017, 112, 176-186.	3.9	56

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73	Morphological and Mechanical Characterization of Nanostructured Thermosets from Epoxy and Styrene-block-Butadiene-block-Styrene Triblock Copolymer. Industrial & Engineering Chemistry Research, 2013, 52, 9121-9129.	3.7	55
74	Biowaste chicken eggshell powder as a potential cure modifier for epoxy/anhydride systems: competitiveness with terpolymer-modified calcium carbonate at low loading levels. RSC Advances, 2017, 7, 2218-2230.	3.6	55
75	Processing Conditions, Thermal and Mechanical Responses of Stretchable Poly (Lactic Acid)/Poly (Butylene Succinate) Films. Materials, 2017, 10, 809.	2.9	55
76	Reaction-Induced Phase Separation and Thermomechanical Properties in Epoxidized Styrene-block-butadiene-block-styrene Triblock Copolymer Modified Epoxy/DDM System. Industrial & Engineering Chemistry Research, 2014, 53, 6941-6950.	3.7	54
77	Ternary PVA nanocomposites containing cellulose nanocrystals from different sources and silver particles: Part II. Carbohydrate Polymers, 2013, 97, 837-848.	10.2	53
78	Synergic Effect of Nanolignin and Metal Oxide Nanoparticles into Poly(<scp>l</scp>-lactide) Bionanocomposites: Material Properties, Antioxidant Activity, and Antibacterial Performance. ACS Applied Bio Materials, 2020, 3, 5263-5274.	4.6	52
79	Biodegradable polycaprolactone-based composites reinforced with ramie and borassus fibres. Composite Structures, 2017, 167, 20-29.	5.8	51
80	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. Molecules, 2021, 26, 126.	3.8	51
81	Highly transparent PVA/nanolignin composite films with excellent UV shielding, antibacterial and antioxidant performance. Reactive and Functional Polymers, 2021, 162, 104873.	4.1	50
82	Okra (Abelmoschus esculentus) Fibre Based PLA Composites: Mechanical Behaviour and Biodegradation. Journal of Polymers and the Environment, 2013, 21, 726-737.	5.0	49
83	Cure kinetics of epoxy/chicken eggshell biowaste composites: Isothermal calorimetric and chemorheological analyses. Progress in Organic Coatings, 2018, 114, 208-215.	3.9	49
84	Keratins extracted from Merino wool and Brown Alpaca fibres as potential fillers for PLLA-based biocomposites. Journal of Materials Science, 2014, 49, 6257-6269.	3.7	48
85	Development and characterization of bionanocomposites based on poly(3â€hydroxybutyrate) and cellulose nanocrystals for packaging applications. Polymer International, 2016, 65, 1046-1053.	3.1	47
86	Effect of magnetic nanoparticles on the thermal properties of some hydrogels. Polymer Degradation and Stability, 2007, 92, 2198-2205.	5.8	45
87	Influence of organically modified clays on the properties and disintegrability in compost of solution cast poly(3-hydroxybutyrate) films. Polymer Degradation and Stability, 2014, 99, 127-135.	5.8	45
88	Recycling coffee silverskin in sustainable composites based on a poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (adipate-co Products, 2018, 118, 311-320.	5.2	45
89	Thermal degradation and fire resistance of epoxyâ€“amineâ€“phenolic blends. Polymer Degradation and Stability, 2001, 73, 521-527.	5.8	44
90	Biodegradation of Phormium tenax/poly(lactic acid) composites. Journal of Applied Polymer Science, 2012, 125, E562.	2.6	44

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91	Effect of nanoclay and carboxyl-terminated (butadiene-co-acrylonitrile) (CTBN) rubber on the reaction induced phase separation and cure kinetics of an epoxy/cyclic anhydride system. Journal of Materials Science, 2012, 47, 5241-5253.	3.7	44
92	Cure Index for labeling curing potential of epoxy/LDH nanocomposites: A case study on nitrate anion intercalated Ni-Al-LDH. Progress in Organic Coatings, 2019, 136, 105228.	3.9	43
93	Effect of ethylene-co-vinyl acetate-glycidylmethacrylate and cellulose microfibers on the thermal, rheological and biodegradation properties of poly(lactic acid) based systems. Polymer Degradation and Stability, 2013, 98, 2742-2751.	5.8	42
94	Keratins extracted from Merino wool and Brown Alpaca fibres: Thermal, mechanical and biological properties of PLLA based biocomposites. Materials Science and Engineering C, 2015, 47, 394-406.	7.3	42
95	Cure kinetics of epoxy/graphene oxide (GO) nanocomposites: Effect of starch functionalization of GO nanosheets. Progress in Organic Coatings, 2019, 136, 105217.	3.9	41
96	Cellulose nanocrystals as templates for cetyltrimethylammonium bromide mediated synthesis of Ag nanoparticles and their novel use in PLA films. Carbohydrate Polymers, 2017, 157, 1557-1567.	10.2	39
97	Effect of Cellulose Nanocrystals and Bacterial Cellulose on Disintegrability in Composting Conditions of Plasticized PHB Nanocomposites. Polymers, 2017, 9, 561.	4.5	39
98	Thermomechanical, antioxidant and moisture behaviour of PVA films in presence of citric acid esterified cellulose nanocrystals. International Journal of Biological Macromolecules, 2020, 161, 617-626.	7.5	39
99	Effect of carbon nanofibers on the cure kinetics of unsaturated polyester resin: Thermal and chemorheological modelling. Composites Science and Technology, 2011, 71, 1507-1507.	7.8	38
100	Effect of carbon black nanoparticle intrinsic properties on the self-monitoring performance of glass fibre reinforced composite rods. Composites Science and Technology, 2011, 71, 1-8.	7.8	38
101	Effect of reactive functionalization on properties and degradability of poly(lactic acid)/poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock	4.1	38
102	Design and Characterization of PLA Bilayer Films Containing Lignin and Cellulose Nanostructures in Combination With Umbelliferone as Active Ingredient. Frontiers in Chemistry, 2019, 7, 157.	3.6	38
103	Cure kinetics and thermal stability of micro and nanostructured thermosetting blends of epoxy resin and epoxidized styreneâ€blockâ€butadieneâ€blockâ€styrene triblock copolymer systems. Polymer Engineering and Science, 2012, 52, 2336-2347.	3.1	37
104	Poly(Îµ-caprolactone) reinforced with fibres of Poly(methyl methacrylate) loaded with multiwall carbon nanotubes or graphene nanoplatelets. Chemical Engineering Journal, 2012, 195-196, 140-148.	12.7	37
105	Tensile and fatigue characterisation of textile cotton waste/polypropylene laminates. Composites Part B: Engineering, 2015, 81, 84-90.	12.0	37
106	Liquid rubber and silicon carbide nanofiber modified epoxy nanocomposites: Volume shrinkage, cure kinetics and properties. Composites Science and Technology, 2014, 102, 65-73.	7.8	36
107	Effect of Different Compatibilizers on Sustainable Composites Based on a PHBV/PBAT Matrix Filled with Coffee Silverskin. Polymers, 2018, 10, 1256.	4.5	36
108	Poly(lactic acid)/Phormium tenax composites: Morphology and thermoâ€mechanical behavior. Polymer Composites, 2011, 32, 1362-1368.	4.6	35

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109	Design of Intrinsically Flame-Retardant Vanillin-Based Epoxy Resin for Thermal-Conductive Epoxy/Graphene Aerogel Composites. ACS Applied Materials & Interfaces, 2021, 13, 59341-59351.	8.0	35
110	PLA Nanocomposites Reinforced with Cellulose Nanocrystals from Posidonia oceanica and ZnO Nanoparticles for Packaging Application. Journal of Renewable Materials, 2017, 5, 103-115.	2.2	34
111	Effect of gallic acid and umbelliferone on thermal, mechanical, antioxidant and antimicrobial properties of poly (vinyl alcohol-co-ethylene) films. Polymer Degradation and Stability, 2018, 152, 162-176.	5.8	34
112	Development of Mg-Zn-Al-CO3 ternary LDH and its curability in epoxy/amine system. Progress in Organic Coatings, 2019, 136, 105264.	3.9	34
113	Bio-Polyethylene-Based Composites Reinforced with Alkali and Palmitoyl Chloride-Treated Coffee Silverskin. Molecules, 2019, 24, 3113.	3.8	34
114	Hydrophobic, UV resistant and dielectric polyurethane-nanolignin composites with good reprocessability. Materials and Design, 2020, 196, 109150.	7.0	33
115	Highly-toughened PVA/nanocellulose hydrogels with anti-oxidative and antibacterial properties triggered by lignin-Ag nanoparticles. Materials Science and Engineering C, 2021, 129, 112385.	7.3	33
116	Polypropylene-natural fibre composites. Analysis of fibre structure modification during compounding and its influence on the final properties. Composite Interfaces, 2008, 15, 111-129.	2.3	32
117	Lignin Nanoparticles: A Promising Tool to Improve Maize Physiological, Biochemical, and Chemical Traits. Nanomaterials, 2021, 11, 846.	4.1	32
118	Clay nanostructure and its localisation in an epoxy/liquid rubber blend. RSC Advances, 2013, 3, 24634.	3.6	31
119	Effect of different lignocellulosic fibres on poly(Îµ-caprolactone)-based composites for potential applications in orthotics. RSC Advances, 2015, 5, 23798-23809.	3.6	31
120	Curing epoxy with Mg-Al LDH nanoplatelets intercalated with carbonate ion. Progress in Organic Coatings, 2019, 136, 105278.	3.9	31
121	Volume shrinkage and rheological studies of epoxidised and unepoxidised poly(styrene-block-butadiene-block-styrene) triblock copolymer modified epoxy resinâ€“diamino diphenyl methane nanostructured blend systems. Physical Chemistry Chemical Physics, 2015, 17, 12760-12770.	2.8	28
122	Preparation and characterization of polybutyleneâ€succinate/poly(ethyleneâ€glycol)/cellulose nanocrystals ternary composites. Journal of Applied Polymer Science, 2016, 133, .	2.6	28
123	Graphene nanoplatelet, multiwall carbon nanotube, and hybrid multiwall carbon nanotubeâ€“graphene nanoplatelet epoxy nanocomposites as strain sensing coatings. Journal of Reinforced Plastics and Composites, 2021, 40, 632-643.	3.1	28
124	Revalorisation of Posidonia Oceanica as Reinforcement in Polyethylene/Maleic Anhydride Grafted Polyethylene Composites. Journal of Renewable Materials, 2014, 2, 66-76.	2.2	27
125	Developing keratin sponges with tunable morphologies and controlled antioxidant properties induced by doping with polydopamine (PDA) nanoparticles. Materials and Design, 2016, 110, 475-484.	7.0	27
126	Biomimetic multifunctional materials: a review. Emergent Materials, 2019, 2, 391-415.	5.7	27

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127	Liquid-rubber-modified epoxy/clay nanocomposites: effect of dispersion methods on morphology and ultimate properties. Polymer Bulletin, 2015, 72, 1703-1722.	3.3	26
128	Antioxidant Packaging Films Based on Ethylene Vinyl Alcohol Copolymer (EVOH) and Caffeic Acid. Molecules, 2020, 25, 3953.	3.8	26
129	Organic waste valorisation towards circular and sustainable biocomposites. Green Chemistry, 2022, 24, 5429-5459.	9.0	26
130	Light Scattering Study of Vitrification during the Polymerization of Model Epoxy Resins. Macromolecules, 2003, 36, 5271-5278.	4.8	25
131	Structure-properties relationship in resol/montmorillonite nanocomposites. Journal of Applied Polymer Science, 2007, 104, 3082-3089.	2.6	25
132	Preparation of Alginate/Graphene Oxide Hybrid Films and Their Integration in Triboelectric Generators. European Journal of Inorganic Chemistry, 2015, 2015, 1192-1197.	2.0	25
133	PBS-Based Green Copolymer as an Efficient Compatibilizer in Thermoplastic Inedible Wheat Flour/Poly(butylene succinate) Blends. Biomacromolecules, 2020, 21, 3254-3269.	5.4	25
134	Development and Characterization of Xanthan Gum and Alginate Based Bioadhesive Film for Pycnogenol Topical Use in Wound Treatment. Pharmaceutics, 2021, 13, 324.	4.5	25
135	Enhancement of paperboard performance as packaging material by layering with plasticized polyhydroxybutyrate/nanocellulose coatings. Journal of Applied Polymer Science, 2018, 135, 46872.	2.6	24
136	Novel Nanocomposite PLA Films with Lignin/Zinc Oxide Hybrids: Design, Characterization, Interaction with Mesenchymal Stem Cells. Nanomaterials, 2020, 10, 2176.	4.1	24
137	Melt processing and mechanical property characterization of high-performance poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	23
138	Effect of Fiber Surface Treatments on Thermo-Mechanical Behavior of Poly(Lactic Acid)/Phormium Tenax Composites. Journal of Polymers and the Environment, 2013, 21, 881-891.	5.0	22
139	Evaluation of the Factors Affecting the Disintegration under a Composting Process of Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overloc	4.5	22
140	Influence of Clay Modification on the Properties of Resol Nanocomposites. Macromolecular Materials and Engineering, 2008, 293, 878-886.	3.6	21
141	Mechanical and thermal properties of epoxy/silicon carbide nanofiber composites. Polymers for Advanced Technologies, 2015, 26, 142-146.	3.2	21
142	Modulation of Acid Hydrolysis Reaction Time for the Extraction of Cellulose Nanocrystals from Posidonia oceanica Leaves. Journal of Renewable Materials, 2016, 4, 190-198.	2.2	21
143	Hydroxytyrosol and Oleuropein-Enriched Extracts Obtained from Olive Oil Wastes and By-Products as Active Antioxidant Ingredients for Poly (Vinyl Alcohol)-Based Films. Molecules, 2021, 26, 2104.	3.8	20
144	The role of clay modifier on cure characteristics and properties of epoxy/clay/carboxyl-terminated poly(butadiene-co-acrylonitrile) (CTBN) hybrid. Materials Technology, 2017, 32, 171-177.	3.0	19

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145	Bio-Based Nanocomposites in Food Packaging. , 2018, , 71-110.		19
146	Epoxy/Zn-Al-CO3 LDH nanocomposites: Curability assessment. Progress in Organic Coatings, 2020, 138, 105355.	3.9	19
147	Oil palm microcomposites: Processing and mechanical behavior. Polymer Engineering and Science, 2010, 50, 1853-1863.	3.1	18
148	Cure kinetics of a highly reactive silicaâ€“polyurethane nanocomposite. Thermochimica Acta, 2012, 549, 172-178.	2.7	18
149	Thermal and mechanical characterisation of Phormium tenax-reinforced polypropylene composites. Journal of Thermoplastic Composite Materials, 2014, 27, 1493-1503.	4.2	18
150	Effect of Almond Shell Waste on Physicochemical Properties of Polyester-Based Biocomposites. Polymers, 2020, 12, 835.	4.5	18
151	A deeper understanding of the photodesorption mechanism of aligned carbon nanotube thin films by impedance spectroscopy. Thin Solid Films, 2004, 449, 105-112.	1.8	17
152	Chemical gating and photoconductivity of CF4 plasma-functionalized single-walled carbon nanotubes with adsorbed butylamine. Journal of Applied Physics, 2005, 97, 114320.	2.5	17
153	Mechanical and thermal properties of crab chitin reinforced carboxylated SBR composites. EXPRESS Polymer Letters, 2012, 6, 396-409.	2.1	17
154	Natural fiber biodegradable composites and nanocomposites. , 2019, , 179-201.		17
155	Tensile Behavior of Thermoplastic Films from Wheat Flours as Function of Raw Material Baking Properties. Journal of Polymers and the Environment, 2016, 24, 37-47.	5.0	16
156	To What Extent Can Hyperelastic Models Make Sense the Effect of Clay Surface Treatment on the Mechanical Properties of Elastomeric Nanocomposites?. Macromolecular Materials and Engineering, 2017, 302, 1700036.	3.6	16
157	Sulfonated Fe3O4/PES nanocomposites as efficient separators in microbial fuel cells. Journal of Membrane Science, 2021, 620, 118967.	8.2	16
158	Preparation of toughened poly(lactic acid)-poly(Îµ-caprolactone)-lignin nanocomposites with good heat- and UV-resistance. Industrial Crops and Products, 2022, 183, 114965.	5.2	16
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