JosÃ© MarÃ-a Kenny

List of Publications by Year
in descending order

		2215	6836
671	37,579	99	155
papers	citations	h-index	g-index

700	700	700	29985
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Production of nanocrystalline cellulose from lignocellulosic biomass: Technology and applications. Carbohydrate Polymers, 2013, 94, 154-169.	10.2	918
2	Biodegradable polymer matrix nanocomposites for tissue engineering: A review. Polymer Degradation and Stability, 2010, 95, 2126-2146.	5.8	823
3	Thermal and mechanical properties of single-walled carbon nanotubesâ€“polypropylene composites prepared by melt processing. Carbon, 2005, 43, 1499-1505.	10.3	586
4	Multifunctional bionanocomposite films of poly(lactic acid), cellulose nanocrystals and silver nanoparticles. Carbohydrate Polymers, 2012, 87, 1596-1605.	10.2	538
5	Multifunctional nanostructured PLA materials for packaging and tissue engineering. Progress in Polymer Science, 2013, 38, 1720-1747.	24.7	527
6	Sensors for sub-ppm NO2 gas detection based on carbon nanotube thin films. Applied Physics Letters, 2003, 82, 961-963.	3.3	480
7	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
8	Effects of modified cellulose nanocrystals on the barrier and migration properties of PLA nano-biocomposites. Carbohydrate Polymers, 2012, 90, 948-956.	10.2	420
9	Physical, structural and antimicrobial properties of poly vinyl alcoholâ€“chitosan biodegradable films. Food Hydrocolloids, 2014, 35, 463-470.	10.7	393
10	The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part I â€“ results from the test flight on the space shuttle. Physics Reports, 2002, 366, 331-405.	25.6	366
11	Science and technology of polymeric ablative materials for thermal protection systems and propulsion devices: A review. Progress in Materials Science, 2016, 84, 192-275.	32.8	313
12	Antioxidant and antibacterial lignin nanoparticles in polyvinyl alcohol/chitosan films for active packaging. Industrial Crops and Products, 2016, 94, 800-811.	5.2	307
13	A Review on Natural Fibre-Based Compositesâ€”Part II. Journal of Natural Fibers, 2005, 1, 23-65.	3.1	301
14	A Review on Natural Fibre-Based Composites-Part I. Journal of Natural Fibers, 2004, 1, 37-68.	3.1	298
15	Effect of nanoparticles on heat capacity of nanofluids based on molten salts as PCM for thermal energy storage. Nanoscale Research Letters, 2013, 8, 448.	5.7	291
16	Bionanocomposite films based on plasticized PLAâ€“PHB/cellulose nanocrystal blends. Carbohydrate Polymers, 2015, 121, 265-275.	10.2	276
17	Recent Advances in Clay/Polymer Nanocomposites. Advanced Materials, 2011, 23, 5229-5236.	21.0	262
18	Investigations on scalable fabrication procedures for self-sensing carbon nanotube cement-matrix composites for SHM applications. Cement and Concrete Composites, 2016, 65, 200-213.	10.7	252

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19	Multifunctional PLAâ€“PHB/cellulose nanocrystal films: Processing, structural and thermal properties. Carbohydrate Polymers, 2014, 107, 16-24.	10.2	250
20	PLA-PHB/cellulose based films: Mechanical, barrier and disintegration properties. Polymer Degradation and Stability, 2014, 107, 139-149.	5.8	243
21	Cosmic protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 27-35.	4.1	242
22	Polyvinyl alcohol/chitosan hydrogels with enhanced antioxidant and antibacterial properties induced by lignin nanoparticles. Carbohydrate Polymers, 2018, 181, 275-284.	10.2	228
23	Leptons in near earth orbit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 484, 10-22.	4.1	224
24	Design of biodegradable blends based on PLA and PCL: From morphological, thermal and mechanical studies to shape memory behavior. Polymer Degradation and Stability, 2016, 132, 97-108.	5.8	222
25	NO2 and CO gas adsorption on carbon nanotubes: Experiment and theory. Journal of Chemical Physics, 2003, 119, 10904-10910.	3.0	221
26	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
27	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
28	Morphological characterization of single-walled carbon nanotubes-PP composites. Composites Science and Technology, 2003, 63, 1149-1153.	7.8	200
29	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
30	Combined effects of cellulose nanocrystals and silver nanoparticles on the barrier and migration properties of PLA nano-biocomposites. Journal of Food Engineering, 2013, 118, 117-124.	5.2	192
31	Processing of nanostructured polymers and advanced polymeric based nanocomposites. Materials Science and Engineering Reports, 2014, 85, 1-46.	31.8	190
32	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
33	Effect of chemical treatments on the mechanical and thermal behaviour of okra (Abelmoschus) Tj ETQq1 1 0.784314 rgBT /Overlock 10	7.8	183
34	Stem cell-biomaterial interactions for regenerative medicine. Biotechnology Advances, 2012, 30, 338-351.	11.7	179
35	Effects of chitosan on the physicochemical and antimicrobial properties of PLA films. Journal of Food Engineering, 2013, 119, 236-243.	5.2	176
36	Structure and properties of biodegradable wheat gluten bionanocomposites containing lignin nanoparticles. Industrial Crops and Products, 2015, 74, 348-356.	5.2	174

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37	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: Part I. Carbohydrate Polymers, 2013, 97, 825-836.	10.2	169
38	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
39	Processing and characterization of plasticized PLA/PHB blends for biodegradable multiphase systems. EXPRESS Polymer Letters, 2015, 9, 583-596.	2.1	168
40	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. Carbohydrate Polymers, 2016, 142, 105-113.	10.2	167
41	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
42	NO2 gas sensitivity of carbon nanotubes obtained by plasma enhanced chemical vapor deposition. Sensors and Actuators B: Chemical, 2003, 93, 333-337.	7.8	164
43	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. Carbohydrate Polymers, 2014, 101, 1122-1133.	10.2	161
44	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
45	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
46	Properties and ageing behaviour of pea starch films as affected by blend with poly(vinyl alcohol). Food Hydrocolloids, 2015, 48, 84-93.	10.7	156
47	Cavitation wear behaviour of austenitic stainless steels with different grain sizes. Wear, 2005, 258, 503-510.	3.1	155
48	Crystallization and Melting Behavior of Poly(3-butylthiophene), Poly(3-octylthiophene), and Poly(3-dodecylthiophene). Macromolecules, 2005, 38, 409-415.	4.8	155
49	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
50	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. Chemistry of Materials, 2009, 21, 3433-3438.	6.7	151
51	The principles of dielectric measurements for in situ monitoring of composite processing. Composites Science and Technology, 1993, 49, 277-290.	7.8	150
52	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
53	Development of flexible materials based on plasticized electrospun PLAâ€“PHB blends: Structural, thermal, mechanical and disintegration properties. European Polymer Journal, 2015, 73, 433-446.	5.4	147
54	Highly sensitive and selective sensors based on carbon nanotubes thin films for molecular detection. Diamond and Related Materials, 2004, 13, 1301-1305.	3.9	146

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55	Helium in near Earth orbit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 494, 193-202.	4.1	145
56	Title is missing!. Journal of Materials Science, 2002, 37, 4561-4565.	3.7	144
57	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
58	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
59	The Interaction of Bacteria with Engineered Nanostructured Polymeric Materials: A Review. Scientific World Journal, The, 2014, 2014, 1-18.	2.1	141
60	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
61	Synthesis and characterization of PCLâ€“PLLA polyurethane with shape memory behavior. European Polymer Journal, 2013, 49, 893-903.	5.4	137
62	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
63	Dynamic mechanical and Raman spectroscopy studies on interaction between single-walled carbon nanotubes and natural rubber. Journal of Applied Polymer Science, 2004, 92, 3394-3400.	2.6	134
64	Dynamics in Polymerâ^'Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy and Dynamic Mechanical Spectroscopy. Macromolecules, 2006, 39, 2172-2182.	4.8	134
65	Effect of temperature and nanoparticle type on hydrolytic degradation of poly(lactic acid) nanocomposites. Polymer Degradation and Stability, 2011, 96, 2120-2129.	5.8	133
66	Determination of autocatalytic kinetic model parameters describing thermoset cure. Journal of Applied Polymer Science, 1994, 51, 761-764.	2.6	132
67	Degradation behaviour of a composite material for thermal protection systems Part Iâ€“Experimental characterization. Journal of Materials Science, 1998, 33, 3137-3143.	3.7	132
68	Physical and mechanical behavior of single-walled carbon nanotube/polypropylene/ethylene-propylene-diene rubber nanocomposites. Journal of Applied Polymer Science, 2003, 89, 2657-2663.	2.6	132
69	Sensors for inorganic vapor detection based on carbon nanotubes and poly(o-anisidine) nanocomposite material. Chemical Physics Letters, 2004, 383, 617-622.	2.6	132
70	Development and thermal behaviour of ternary PLA matrix composites. Polymer Degradation and Stability, 2010, 95, 2200-2206.	5.8	132
71	Sensitivity to NO2 and cross-sensitivity analysis to NH3, ethanol and humidity of carbon nanotubes thin film prepared by PECVD. Sensors and Actuators B: Chemical, 2003, 95, 195-202.	7.8	130
72	Cellulose nanocrystals extracted from okra fibers in PVA nanocomposites. Journal of Applied Polymer Science, 2013, 128, 3220-3230.	2.6	130

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73	Effects of single-walled carbon nanotubes on the crystallization behavior of polypropylene. Journal of Applied Polymer Science, 2003, 87, 708-713.	2.6	128
74	Mechanical characterization of polypropylene-wood flour composites. Journal of Applied Polymer Science, 2003, 88, 1420-1428.	2.6	128
75	The alignment of single walled carbon nanotubes in an epoxy resin by applying a DC electric field. Carbon, 2012, 50, 2453-2464.	10.3	127
76	Flax fiber surface modifications: Effects on fiber physico mechanical and flax/polypropylene interface properties. Polymer Composites, 2005, 26, 324-332.	4.6	126
77	PVA bio-nanocomposites: A new take-off using cellulose nanocrystals and PLGA nanoparticles. Carbohydrate Polymers, 2014, 99, 47-58.	10.2	126
78	Carbon nanotubes as new materials for gas sensing applications. Journal of the European Ceramic Society, 2004, 24, 1405-1408.	5.7	125
79	Role of defects on the gas sensing properties of carbon nanotubes thin films: experiment and theory. Chemical Physics Letters, 2004, 387, 356-361.	2.6	121
80	Synergistic Effect of Halloysite and Cellulose Nanocrystals on the Functional Properties of PVA Based Nanocomposites. ACS Sustainable Chemistry and Engineering, 2016, 4, 794-800.	6.7	120
81	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
82	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
83	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
84	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
85	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structureâ€“Property Relationship. Materials, 2019, 12, 471.	2.9	113
86	Cellulose nanocrystal based multifunctional nanohybrids. Progress in Materials Science, 2020, 112, 100668.	32.8	113
87	Biodegradable electrospun bionanocomposite fibers based on plasticized PLAâ€“PHB blends reinforced with cellulose nanocrystals. Industrial Crops and Products, 2016, 93, 290-301.	5.2	112
88	A New Phase Change Material Based on Potassium Nitrate with Silica and Alumina Nanoparticles for Thermal Energy Storage. Nanoscale Research Letters, 2015, 10, 984.	5.7	111
89	A novel method to prepare conductive nanocrystalline cellulose/graphene oxide composite films. Materials Letters, 2013, 105, 4-7.	2.6	110
90	Impact testing and simulation of composite sandwich structures for civil transportation. Composite Structures, 2000, 50, 257-267.	5.8	108

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91	Novel Anthracene-Core Molecule for the Development of Efficient PCBM-Based Solar Cells. Chemistry of Materials, 2008, 20, 32-34.	6.7	107
92	Thermal and dynamic mechanical characterization of polypropylene-woodflour composites. Polymer Engineering and Science, 2002, 42, 733-742.	3.1	106
93	Bagasse Fiber-Polypropylene Based Composites. Journal of Thermoplastic Composite Materials, 1999, 12, 477-497.	4.2	105
94	Effects of the grain size on the corrosion behavior of refined AISI 304 austenitic stainless steels. Journal of Materials Science Letters, 2002, 21, 1631-1634.	0.5	105
95	Grain refinement strengthening of a micro-crystalline high nitrogen austenitic stainless steel. Materials Letters, 2003, 57, 1830-1834.	2.6	104
96	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites Part I. Processing and morphology. Carbohydrate Polymers, 2013, 96, 611-620.	10.2	104
97	Heat capacity of nanofluids for solar energy storage produced by dispersing oxide nanoparticles in nitrate salt mixture directly at high temperature. Solar Energy Materials and Solar Cells, 2017, 167, 60-69.	6.2	103
98	A model for the thermal and chemorheological behavior of thermoset processing: (II) Unsaturated polyester based composites. Composites Science and Technology, 1990, 38, 339-358.	7.8	102
99	Effects of carbon nanotubes on the crystallization behavior of polypropylene. Polymer Engineering and Science, 2004, 44, 303-311.	3.1	102
100	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
101	Cure kinetics of neat and carbon-fiber-reinforced TGDDM/DDS epoxy systems. Journal of Applied Polymer Science, 1996, 61, 1025-1037.	2.6	99
102	Effect of Chemical Treatment on the Mechanical Properties of Starch-Based Blends Reinforced with Sisal Fibre. Journal of Composite Materials, 2004, 38, 1387-1399.	2.4	99
103	Use of butylamine modified graphene sheets in polymer solar cells. Journal of Materials Chemistry, 2010, 20, 995-1000.	6.7	99
104	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
105	Characterization of Composites Based on Natural and Glass Fibers Obtained by Vacuum Infusion. Journal of Composite Materials, 2005, 39, 265-282.	2.4	98
106	Extraction of Cellulose Nanocrystals from Phormium tenax Fibres. Journal of Polymers and the Environment, 2013, 21, 319-328.	5.0	98
107	Enhancement of mechanical properties and interfacial adhesion of PP/EPDM/flax fiber composites using maleic anhydride as a compatibilizer. Journal of Applied Polymer Science, 2003, 90, 2170-2178.	2.6	96
108	Curing kinetics and chemorheology of epoxy/anhydride system. Journal of Applied Polymer Science, 2003, 90, 3012-3019.	2.6	96

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109	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
110	Grain size dependence of the fatigue behaviour of a ultrafine-grained AISI 304 stainless steel. Materials Letters, 2003, 57, 3182-3185.	2.6	95
111	Stimuli Responsive Hydrogels Prepared by Frontal Polymerization. Biomacromolecules, 2009, 10, 2672-2677.	5.4	95
112	Effect of the molecular weight on the crystallinity of PCL-b-PLLA di-block copolymers. Polymer, 2012, 53, 4561-4568.	3.8	95
113	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
114	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
115	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: Properties evaluation. Carbohydrate Polymers, 2013, 96, 621-627.	10.2	94
116	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
117	Multifunctional lignin-based nanocomposites and nanohybrids. Green Chemistry, 2021, 23, 6698-6760.	9.0	93
118	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
119	Relationship between processing and properties of biodegradable composites based on PCL/starch matrix and sisal fibers. Polymer Composites, 2001, 22, 104-110.	4.6	91
120	Simple citric acid-catalyzed surface esterification of cellulose nanocrystals. Carbohydrate Polymers, 2017, 157, 1358-1364.	10.2	91
121	Development of ultra fine grain structure by martensitic reversion in stainless steel. Journal of Materials Science Letters, 2002, 21, 751-753.	0.5	90
122	Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres. Industrial Crops and Products, 2014, 56, 175-186.	5.2	90
123	Reactive compatibilization of plant polysaccharides and biobased polymers: Review on current strategies, expectations and reality. Carbohydrate Polymers, 2019, 209, 20-37.	10.2	89
124	Tuning Multi/Pluri-Potent Stem Cell Fate by Electrospun Poly(<scp>l</scp>-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (acid)-Ca	5.4	88
125	Processing of edible films based on nanoreinforced gelatinized starch. Polymer Degradation and Stability, 2016, 132, 157-168.	5.8	88
126	New multifunctional poly(lactide acid) composites: Mechanical, antibacterial, and degradation properties. Journal of Applied Polymer Science, 2012, 124, 87-98.	2.6	87

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127	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. LWT - Food Science and Technology, 2015, 64, 980-988.	5.2	87
128	Protocol for nonisothermal cure analysis of thermoset composites. Progress in Organic Coatings, 2019, 131, 333-339.	3.9	87
129	A model for the thermal and chemorheological behavior of thermosets. I: Processing of epoxy-based composites. Polymer Engineering and Science, 1989, 29, 973-983.	3.1	85
130	Effects of grain size on the properties of a low nickel austenitic stainless steel. Journal of Materials Science, 2003, 38, 4725-4733.	3.7	84
131	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
132	Effects of reinforcing fibers on the crystallization of polypropylene. Polymer Engineering and Science, 2000, 40, 2194-2204.	3.1	83
133	Reversible oxidation effects on carbon nanotubes thin films for gas sensing applications. Materials Science and Engineering C, 2003, 23, 523-529.	7.3	83
134	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
135	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
136	Nanocomposites Based on Biodegradable Polymers. Materials, 2018, 11, 795.	2.9	83
137	Relationship between water absorption and dielectric behaviour of natural fibre composite materials. Polymer Testing, 2006, 25, 181-187.	4.8	82
138	Electrospinning of biodegradable polylactide/hydroxyapatite nanofibers: Study on the morphology, crystallinity structure and thermal stability. Polymer Degradation and Stability, 2012, 97, 2052-2059.	5.8	82
139	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
140	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
141	Dielectric behavior of epoxy matrix/single-walled carbon nanotube composites. Composites Science and Technology, 2004, 64, 23-33.	7.8	81
142	Effect of chitosan and catechin addition on the structural, thermal, mechanical and disintegration properties of plasticized electrospun PLA-PHB biocomposites. Polymer Degradation and Stability, 2016, 132, 145-156.	5.8	81
143	Effect of the addition of polyester-grafted-cellulose nanocrystals on the shape memory properties of biodegradable PLA/PCL nanocomposites. Polymer Degradation and Stability, 2018, 152, 126-138.	5.8	81
144	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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145	Valorization and extraction of cellulose nanocrystals from North African grass: Ampelodesmos mauritanicus (Diss). Carbohydrate Polymers, 2019, 209, 328-337.	10.2	77
146	Rheology of particle suspensions in viscoelastic media. Wood flour-polypropylene melt. Rheologica Acta, 2004, 43, 293-303.	2.4	76
147	A nanostructured ablative bulk molding compound: Development and characterization. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1197-1204.	7.6	76
148	Carbon nanotubes and silver nanoparticles for multifunctional conductive biopolymer composites. Carbon, 2011, 49, 2370-2379.	10.3	76
149	In situ real-time monitoring of epoxy/amine kinetics by remote near infrared spectroscopy. Polymers for Advanced Technologies, 1996, 7, 1-16.	3.2	75
150	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. Journal of Colloid and Interface Science, 2015, 445, 31-39.	9.4	75
151	Crystallization kinetics of poly(phenylene sulfide) (PPS) and PPS/carbon fiber composites. Polymer Engineering and Science, 1991, 31, 607-614.	3.1	74
152	Mechanical properties of polypropylene matrix composites reinforced with natural fibers: A statistical approach. Polymer Composites, 2004, 25, 26-36.	4.6	74
153	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
154	Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto an amino-silane modified silicon surface. Journal of Materials Chemistry, 2012, 22, 6213.	6.7	73
155	Solidification mode and residual ferrite in low-Ni austenitic stainless steels. Journal of Materials Science, 2000, 35, 375-380.	3.7	72
156	Effects of oxygen annealing on gas sensing properties of carbon nanotube thin films. Thin Solid Films, 2003, 436, 95-100.	1.8	72
157	Dynamics of amine functionalized nanotubes/epoxy composites by dielectric relaxation spectroscopy. Carbon, 2004, 42, 323-329.	10.3	72
158	Towards materials with enhanced electro-mechanical response: CaCu3Ti4O12â€“polydimethylsiloxane composites. Journal of Materials Chemistry, 2012, 22, 24705.	6.7	72
159	Functional Properties of Plasticized Bio-Based Poly(Lactic Acid)_Poly(Hydroxybutyrate) (PLA_PHB) Films for Active Food Packaging. Food and Bioprocess Technology, 2017, 10, 770-780.	4.7	72
160	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
161	Electrospun poly(Îµ-caprolactone)/Ca-deficient hydroxyapatite nanohybrids: Microstructure, mechanical properties and cell response by murine embryonic stem cells. Materials Science and Engineering C, 2009, 29, 2063-2071.	7.3	71
162	Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging. Polymers, 2019, 11, 1999.	4.5	71

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163	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
164	Poly(lactic acid) melt-spun fibers reinforced with functionalized cellulose nanocrystals. RSC Advances, 2016, 6, 9221-9231.	3.6	69
165	Isothermal and dynamic reaction kinetics of high performance epoxy matrices. Polymer Engineering and Science, 1991, 31, 1426-1433.	3.1	68
166	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
167	Development of high nitrogen, low nickel, 18%Cr austenitic stainless steels. Journal of Materials Science, 2000, 35, 4803-4808.	3.7	66
168	Thermally-activated shape memory behaviour of bionanocomposites reinforced with cellulose nanocrystals. Cellulose, 2014, 21, 4231-4246.	4.9	65
169	Microstructure and ablation behavior of an affordable and reliable nanostructured Phenolic Impregnated Carbon Ablator (PICA). Polymer Degradation and Stability, 2017, 141, 84-96.	5.8	65
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