Franco Dominici

List of Publications by Year in descending order

60 papers	3,643 citations	147801 31 h-index	133252 59 g-index
61 all docs	61 docs citations	61 times ranked	3811 citing authors

#	Article	IF	Citations
1	Bionanocomposite films based on plasticized PLAâ€“PHB/cellulose nanocrystal blends. Carbohydrate Polymers, 2015, 121, 265-275.	10.2	276
2	Multifunctional PLAâ€“PHB/cellulose nanocrystal films: Processing, structural and thermal properties. Carbohydrate Polymers, 2014, 107, 16-24.	10.2	250
3	PLA-PHB/cellulose based films: Mechanical, barrier and disintegration properties. Polymer Degradation and Stability, 2014, 107, 139-149.	5.8	243
4	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
5	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
6	Processing and characterization of plasticized PLA/PHB blends for biodegradable multiphase systems. EXPRESS Polymer Letters, 2015, 9, 583-596.	2.1	168
7	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
8	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
9	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
10	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
11	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. LWT - Food Science and Technology, 2015, 64, 980-988.	5.2	87
12	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
13	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
14	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
15	PLA films with improved flexibility properties by using maleinized cottonseed oil. European Polymer Journal, 2017, 91, 248-259.	5.4	76
16	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
17	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
18	Manufacturing and compatibilization of PLA/PBAT binary blends by cottonseed oil-based derivatives. EXPRESS Polymer Letters, 2018, 12, 808-823.	2.1	65

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19	Thermally-activated shape memory effect on biodegradable nanocomposites based on PLA/PCL blend reinforced with hydroxyapatite. Polymer Degradation and Stability, 2018, 151, 36-51.	5.8	62
20	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
21	Influence of thymol and silver nanoparticles on the degradation of poly(lactic acid) based nanocomposites: Thermal and morphological properties. Polymer Degradation and Stability, 2014, 108, 158-165.	5.8	60
22	Biodegradable polycaprolactone-based composites reinforced with ramie and borassus fibres. Composite Structures, 2017, 167, 20-29.	5.8	51
23	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. Molecules, 2021, 26, 126.	3.8	51
24	PCM for improving polyurethane-based cool roof membranes durability. Solar Energy Materials and Solar Cells, 2017, 160, 34-42.	6.2	48
25	Recycling coffee silverskin in sustainable composites based on a poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td [a Products, 2018, 118, 311-320.	5.2	45
26	Maleinized Linseed Oil as Epoxy Resin Hardener for Composites with High Bio Content Obtained from Linen Byproducts. Polymers, 2019, 11, 301.	4.5	45
27	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
28	The effect of sepiolite on the compatibilization of polyethyleneâ€“thermoplastic starch blends for environmentally friendly films. Journal of Materials Science, 2015, 50, 863-872.	3.7	36
29	Effect of Different Compatibilizers on Sustainable Composites Based on a PHBV/PBAT Matrix Filled with Coffee Silverskin. Polymers, 2018, 10, 1256.	4.5	36
30	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. Carbohydrate Polymers, 2019, 223, 115131.	10.2	35
31	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
32	Bio-Polyethylene-Based Composites Reinforced with Alkali and Palmitoyl Chloride-Treated Coffee Silverskin. Molecules, 2019, 24, 3113.	3.8	34
33	Environmentally Friendly Polymers and Polymer Composites. Materials, 2020, 13, 4892.	2.9	32
34	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
35	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. Carbohydrate Polymers, 2017, 165, 51-60.	10.2	30
36	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

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37	Novel Nanocomposite PLA Films with Lignin/Zinc Oxide Hybrids: Design, Characterization, Interaction with Mesenchymal Stem Cells. Nanomaterials, 2020, 10, 2176.	4.1	24
38	Melt processing and mechanical property characterization of high-performance poly(ether ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	3.1	23
39	Effect of Almond Shell Waste on Physicochemical Properties of Polyester-Based Biocomposites. Polymers, 2020, 12, 835.	4.5	18
40	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
41	Sulfonated Fe3O4/PES nanocomposites as efficient separators in microbial fuel cells. Journal of Membrane Science, 2021, 620, 118967.	8.2	16
42	Tensile, Thermal and Morphological Characterization of Cocoa Bean Shells (CBS)/Polycaprolactone-Based Composites. Journal of Renewable Materials, 2016, 4, 199-205.	2.2	15
43	Thermomechanical and Morphological Properties of Poly(ethylene terephthalate)/Anhydrous Calcium Terephthalate Nanocomposites. Polymers, 2020, 12, 276.	4.5	15
44	Development and Characterization of Concrete/PCM/Diatomite Composites for Thermal Energy Storage in CSP/CST Applications. Energies, 2021, 14, 4410.	3.1	14
45	Processing, thermo-mechanical characterization and gas permeability of thermoplastic starch/poly(butylene trans-1,4-cyclohexanedicarboxylate) blends. Polymer Degradation and Stability, 2018, 157, 100-107.	5.8	12
46	Improved Toughness in Lignin/Natural Fiber Composites Plasticized with Epoxidized and Maleinized Linseed Oils. Materials, 2020, 13, 600.	2.9	12
47	Anthocyanin Hybrid Nanopigments from Pomegranate Waste: Colour, Thermomechanical Stability and Environmental Impact of Polyester-Based Bionanocomposites. Polymers, 2021, 13, 1966.	4.5	12
48	Relationships between wheat flour baking properties and tensile characteristics of derived thermoplastic films. Industrial Crops and Products, 2017, 100, 138-145.	5.2	11
49	Effect of nanoâ€magnetite particle content on mechanical, thermal and magnetic properties of polypropylene composites. Polymer Composites, 2018, 39, E1742.	4.6	11
50	Effect of Lemon Waste Natural Dye and Essential Oil Loaded into Laminar Nanoclays on Thermomechanical and Color Properties of Polyester Based Bionanocomposites. Polymers, 2020, 12, 1451.	4.5	11
51	Effect of Chlorophyll Hybrid Nanopigments from Broccoli Waste on Thermomechanical and Colour Behaviour of Polyester-Based Bionanocomposites. Polymers, 2020, 12, 2508.	4.5	9
52	Effect of Pretreatment of Nanocomposite PESâ€Fe 3 O 4 Separator on Microbial Fuel Cells Performance. Polymer Engineering and Science, 2020, 60, 371-379.	3.1	7
53	Biocomposites Based on Plasticized Wheat Flours: Effect of Bran Content on Thermomechanical Behavior. Polymers, 2020, 12, 2248.	4.5	7
54	Migration and Degradation in Composting Environment of Active Polylactic Acid Bilayer Nanocomposites Films: Combined Role of Umbelliferone, Lignin and Cellulose Nanostructures. Polymers, 2021, 13, 282.	4.5	7

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55	Effect of Cellulose Nanocrystals on Fire, Thermal and Mechanical Behavior of N,N'-Diallyl-phenylphosphoricdiamide Modified Poly(lactic acid). Journal of Renewable Materials, 2017, 5, 423-434.	2.2	6
56	A Novel Class of Cost Effective and High Performance Composites Based on Terephthalate Salts Reinforced Polyether Ether Ketone. Polymers, 2019, 11, 2097.	4.5	6
57	Improving the flexibility and compostability of starch/poly(butylene cyclohexanedicarboxylate)-based blends. Carbohydrate Polymers, 2020, 246, 116631.	10.2	6
58	Color Fixation Strategies on Sustainable Poly-Butylene Succinate Using Biobased Itaconic Acid. Polymers, 2021, 13, 79.	4.5	4
59	Influence of gallic acid and umbelliferone on structural and functional properties of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.4	1
60	Thermal Properties of Shape-Stabilized Phase Change Materials Based on Porous Supports for Thermal Energy Storage. Energies, 2021, 14, 7151.	3.1	1