

# Francesca Luzi

## List of Publications by Year in descending order

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85  
papers

3,292  
citations

147801

31  
h-index

155660

55  
g-index

85  
all docs

85  
docs citations

85  
times ranked

3665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production and characterization of PLA_PBS biodegradable blends reinforced with cellulose nanocrystals extracted from hemp fibres. <i>Industrial Crops and Products</i> , 2016, 93, 276-289.	5.2	186
2	Binary PVA bio-nanocomposites containing cellulose nanocrystals extracted from different natural sources: Part I. <i>Carbohydrate Polymers</i> , 2013, 97, 825-836.	10.2	169
3	Processing and characterization of plasticized PLA/PHB blends for biodegradable multiphase systems. <i>EXPRESS Polymer Letters</i> , 2015, 9, 583-596.	2.1	168
4	Processing of PLA nanocomposites with cellulose nanocrystals extracted from <i>Posidonia oceanica</i> waste: Innovative reuse of coastal plant. <i>Industrial Crops and Products</i> , 2015, 67, 439-447.	5.2	165
5	Investigation of thermo-mechanical, chemical and degradative properties of PLA-limonene films reinforced with cellulose nanocrystals extracted from <i>Phormium tenax</i> leaves. <i>European Polymer Journal</i> , 2014, 56, 77-91.	5.4	159
6	Bio- and Fossil-Based Polymeric Blends and Nanocomposites for Packaging: Structure-Property Relationship. <i>Materials</i> , 2019, 12, 471.	2.9	113
7	Thermal, antioxidant and swelling behaviour of transparent polyvinyl (alcohol) films in presence of hydrophobic citric acid-modified lignin nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 665-676.	7.5	100
8	Study of disintegrability in compost and enzymatic degradation of PLA and PLA nanocomposites reinforced with cellulose nanocrystals extracted from <i>Posidonia Oceanica</i> . <i>Polymer Degradation and Stability</i> , 2015, 121, 105-115.	5.8	95
9	Revalorization of sunflower stalks as novel sources of cellulose nanofibrils and nanocrystals and their effect on wheat gluten bionanocomposite properties. <i>Carbohydrate Polymers</i> , 2016, 149, 357-368.	10.2	94
10	Optimized extraction of cellulose nanocrystals from pristine and carded hemp fibres. <i>Industrial Crops and Products</i> , 2014, 56, 175-186.	5.2	90
11	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. <i>LWT - Food Science and Technology</i> , 2015, 64, 980-988.	5.2	87
12	Nanocomposites Based on Biodegradable Polymers. <i>Materials</i> , 2018, 11, 795.	2.9	83
13	Lignocellulosic nanostructures as reinforcement in extruded and solvent casted polymeric nanocomposites: an overview. <i>European Polymer Journal</i> , 2016, 80, 295-316.	5.4	80
14	Revalorization of barley straw and husk as precursors for cellulose nanocrystals extraction and their effect on PVA_CH nanocomposites. <i>Industrial Crops and Products</i> , 2016, 92, 201-217.	5.2	79
15	Cellulose nanocrystals from <i>Actinidia deliciosa</i> pruning residues combined with carvacrol in PVA_CH films with antioxidant/antimicrobial properties for packaging applications. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 43-55.	7.5	77
16	Valorization and extraction of cellulose nanocrystals from North African grass: <i>Ampelodesmos mauritanicus</i> (Diss). <i>Carbohydrate Polymers</i> , 2019, 209, 328-337.	10.2	77
17	Functional Properties of Plasticized Bio-Based Poly(Lactic Acid)_Poly(Hydroxybutyrate) (PLA_PHB) Films for Active Food Packaging. <i>Food and Bioprocess Technology</i> , 2017, 10, 770-780.	4.7	72
18	Citric Acid as Green Modifier for Tuned Hydrophilicity of Surface Modified Cellulose and Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9966-9978.	6.7	72

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19	Gallic Acid and Quercetin as Intelligent and Active Ingredients in Poly(vinyl alcohol) Films for Food Packaging. <i>Polymers</i> , 2019, 11, 1999.	4.5	71
20	Nanostructured starch combined with hydroxytyrosol in poly(vinyl alcohol) based ternary films as active packaging system. <i>Carbohydrate Polymers</i> , 2018, 193, 239-248.	10.2	56
21	Ternary PVA nanocomposites containing cellulose nanocrystals from different sources and silver particles: Part II. <i>Carbohydrate Polymers</i> , 2013, 97, 837-848.	10.2	53
22	Synergic Effect of Nanolignin and Metal Oxide Nanoparticles into Poly(lactide) Bionanocomposites: Material Properties, Antioxidant Activity, and Antibacterial Performance. <i>ACS Applied Bio Materials</i> , 2020, 3, 5263-5274.	4.6	52
23	UV Protective, Antioxidant, Antibacterial and Compostable Polylactic Acid Composites Containing Pristine and Chemically Modified Lignin Nanoparticles. <i>Molecules</i> , 2021, 26, 126.	3.8	51
24	Recycling coffee silverskin in sustainable composites based on a poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (adipate-co Products, 2018, 118, 311-320.	5.2	45
25	Cure Index for labeling curing potential of epoxy/LDH nanocomposites: A case study on nitrate anion intercalated Ni-Al-LDH. <i>Progress in Organic Coatings</i> , 2019, 136, 105228.	3.9	43
26	Thermomechanical, antioxidant and moisture behaviour of PVA films in presence of citric acid esterified cellulose nanocrystals. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 617-626.	7.5	39
27	Design and Characterization of PLA Bilayer Films Containing Lignin and Cellulose Nanostructures in Combination With Umbelliferone as Active Ingredient. <i>Frontiers in Chemistry</i> , 2019, 7, 157.	3.6	38
28	Effect of Different Compatibilizers on Sustainable Composites Based on a PHBV/PBAT Matrix Filled with Coffee Silverskin. <i>Polymers</i> , 2018, 10, 1256.	4.5	36
29	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. <i>Carbohydrate Polymers</i> , 2019, 223, 115131.	10.2	35
30	PLA Nanocomposites Reinforced with Cellulose Nanocrystals from <i>Posidonia oceanica</i> and ZnO Nanoparticles for Packaging Application. <i>Journal of Renewable Materials</i> , 2017, 5, 103-115.	2.2	34
31	Effect of gallic acid and umbelliferone on thermal, mechanical, antioxidant and antimicrobial properties of poly (vinyl alcohol-co-ethylene) films. <i>Polymer Degradation and Stability</i> , 2018, 152, 162-176.	5.8	34
32	Development of Mg-Zn-Al-CO <sub>3</sub> ternary LDH and its curability in epoxy/amine system. <i>Progress in Organic Coatings</i> , 2019, 136, 105264.	3.9	34
33	Bio-Polyethylene-Based Composites Reinforced with Alkali and Palmitoyl Chloride-Treated Coffee Silverskin. <i>Molecules</i> , 2019, 24, 3113.	3.8	34
34	Lignin Nanoparticles: A Promising Tool to Improve Maize Physiological, Biochemical, and Chemical Traits. <i>Nanomaterials</i> , 2021, 11, 846.	4.1	32
35	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017, 165, 51-60.	10.2	30
36	Effective Postharvest Preservation of Kiwifruit and Romaine Lettuce with a Chitosan Hydrochloride Coating. <i>Coatings</i> , 2017, 7, 196.	2.6	28

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37	Revalorisation of <i>Posidonia Oceanica</i> as Reinforcement in Polyethylene/Maleic Anhydride Grafted Polyethylene Composites. <i>Journal of Renewable Materials</i> , 2014, 2, 66-76.	2.2	27
38	Effect of hydroxytyrosol methyl carbonate on the thermal, migration and antioxidant properties of PVA-based films for active food packaging. <i>Polymer International</i> , 2016, 65, 872-882.	3.1	26
39	Antioxidant Packaging Films Based on Ethylene Vinyl Alcohol Copolymer (EVOH) and Caffeic Acid. <i>Molecules</i> , 2020, 25, 3953.	3.8	26
40	PBS-Based Green Copolymer as an Efficient Compatibilizer in Thermoplastic Inedible Wheat Flour/Poly(butylene succinate) Blends. <i>Biomacromolecules</i> , 2020, 21, 3254-3269.	5.4	25
41	Development and Characterization of Xanthan Gum and Alginate Based Bioadhesive Film for Pycnogenol Topical Use in Wound Treatment. <i>Pharmaceutics</i> , 2021, 13, 324.	4.5	25
42	Enhancement of paperboard performance as packaging material by layering with plasticized polyhydroxybutyrate/nanocellulose coatings. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46872.	2.6	24
43	Novel Nanocomposite PLA Films with Lignin/Zinc Oxide Hybrids: Design, Characterization, Interaction with Mesenchymal Stem Cells. <i>Nanomaterials</i> , 2020, 10, 2176.	4.1	24
44	Evaluation of the Factors Affecting the Disintegration under a Composting Process of Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 4	4.5	22
45	Modulation of Acid Hydrolysis Reaction Time for the Extraction of Cellulose Nanocrystals from <i>Posidonia oceanica</i> Leaves. <i>Journal of Renewable Materials</i> , 2016, 4, 190-198.	2.2	21
46	Hydroxytyrosol and Oleuropein-Enriched Extracts Obtained from Olive Oil Wastes and By-Products as Active Antioxidant Ingredients for Poly (Vinyl Alcohol)-Based Films. <i>Molecules</i> , 2021, 26, 2104.	3.8	20
47	Bio-Based Nanocomposites in Food Packaging. , 2018, , 71-110.		19
48	Effect of Almond Shell Waste on Physicochemical Properties of Polyester-Based Biocomposites. <i>Polymers</i> , 2020, 12, 835.	4.5	18
49	Reinforcement effect of cellulose nanocrystals in thermoplastic polyurethane matrices characterized by different soft/hard segment ratio. <i>Polymer Engineering and Science</i> , 2017, 57, 521-530.	3.1	17
50	Hydroxytyrosol as Active Ingredient in Poly(vinyl alcohol) Films for Food Packaging Applications. <i>Journal of Renewable Materials</i> , 2017, 5, 81-95.	2.2	15
51	Thermomechanical and Morphological Properties of Poly(ethylene terephthalate)/Anhydrous Calcium Terephthalate Nanocomposites. <i>Polymers</i> , 2020, 12, 276.	4.5	15
52	Synthesis of a Lignin/Zinc Oxide Hybrid Nanoparticles System and Its Application by Nano-Priming in Maize. <i>Nanomaterials</i> , 2022, 12, 568.	4.1	14
53	Life Cycle Analysis of Extruded Films Based on Poly(lactic acid)/Cellulose Nanocrystal/Limonene: A Comparative Study with ATBC Plasticized PLA/OMMT Systems. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1891-1902.	5.0	13
54	Improved Toughness in Lignin/Natural Fiber Composites Plasticized with Epoxidized and Maleinized Linseed Oils. <i>Materials</i> , 2020, 13, 600.	2.9	12

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55	Anthocyanin Hybrid Nanopigments from Pomegranate Waste: Colour, Thermomechanical Stability and Environmental Impact of Polyester-Based Bionanocomposites. <i>Polymers</i> , 2021, 13, 1966.	4.5	12
56	Wound Dressing: Combination of Acacia Gum/PVP/Cyclic Dextrin in Bioadhesive Patches Loaded with Grape Seed Extract. <i>Pharmaceutics</i> , 2022, 14, 485.	4.5	12
57	Extraction of nanostructured starch from purified granules of waxy and non-waxy barley cultivars. <i>Industrial Crops and Products</i> , 2019, 130, 520-527.	5.2	11
58	Durability and weatherability of a styrene-ethylene-butylene-styrene (SEBS) block copolymer-based sensing skin for civil infrastructure applications. <i>Sensors and Actuators A: Physical</i> , 2019, 293, 269-280.	4.1	11
59	Effect of Lemon Waste Natural Dye and Essential Oil Loaded into Laminar Nanoclays on Thermomechanical and Color Properties of Polyester Based Bionanocomposites. <i>Polymers</i> , 2020, 12, 1451.	4.5	11
60	Covalent Immobilization of Proteases on Polylactic Acid for Proteins Hydrolysis and Waste Biomass Protein Content Valorization. <i>Catalysts</i> , 2021, 11, 167.	3.5	11
61	Poly(butylene cyclohexanedicarboxylate/diglycolate) random copolymers reinforced with SWCNTs for multifunctional conductive biopolymer composites. <i>EXPRESS Polymer Letters</i> , 2016, 10, 111-124.	2.1	11
62	Extraction of Lignocellulosic Materials From Waste Products. , 2016, , 1-38.		10
63	Exploring curing potential of epoxy nanocomposites containing nitrate anion intercalated Mg-Al-LDH with Cure Index. <i>Progress in Organic Coatings</i> , 2020, 139, 105255.	3.9	10
64	Polymeric Bioadhesive Patch Based on Ketoprofen-Hydrocortisone Hybrid for Local Treatments. <i>Pharmaceutics</i> , 2020, 12, 733.	4.5	9
65	Unpatterned Bioactive Poly(Butylene 1,4-Cyclohexanedicarboxylate)-Based Film Fast Induced Neuronal-Like Differentiation of Human Bone Marrow-Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9274.	4.1	9
66	Effect of Chlorophyll Hybrid Nanopigments from Broccoli Waste on Thermomechanical and Colour Behaviour of Polyester-Based Bionanocomposites. <i>Polymers</i> , 2020, 12, 2508.	4.5	9
67	Effect of SWCNT introduction in random copolymers on material properties and fibroblast long term culture stability. <i>Polymer Degradation and Stability</i> , 2016, 132, 220-230.	5.8	8
68	Active Role of ZnO Nanorods in Thermomechanical and Barrier Performance of Poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (	4.5	8
69	Thermal and mechanical behavior of thermoplastic composites reinforced with fibers enzymatically extracted from <i>Ampelodesmos mauritanicus</i> . <i>Polymer Engineering and Science</i> , 2019, 59, 2418-2428.	3.1	8
70	Lignocellulosic Based Bionanocomposites for Different Industrial Applications. <i>Current Organic Chemistry</i> , 2018, 22, 1205-1221.	1.6	8
71	Effect of Pretreatment of Nanocomposite PES-Fe <sub>3</sub> O <sub>4</sub> Separator on Microbial Fuel Cells Performance. <i>Polymer Engineering and Science</i> , 2020, 60, 371-379.	3.1	7
72	Biocomposites Based on Plasticized Wheat Flours: Effect of Bran Content on Thermomechanical Behavior. <i>Polymers</i> , 2020, 12, 2248.	4.5	7

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73	Migration and Degradation in Composting Environment of Active Polylactic Acid Bilayer Nanocomposites Films: Combined Role of Umbelliferone, Lignin and Cellulose Nanostructures. <i>Polymers</i> , 2021, 13, 282.	4.5	7
74	A Novel Class of Cost Effective and High Performance Composites Based on Terephthalate Salts Reinforced Polyether Ether Ketone. <i>Polymers</i> , 2019, 11, 2097.	4.5	6
75	Effect of SWCNT Content and Water Vapor Adsorption on the Electrical Properties of Cellulose Nanocrystal-Based Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14901-14910.	3.1	6
76	Improving the flexibility and compostability of starch/poly(butylene cyclohexanedicarboxylate)-based blends. <i>Carbohydrate Polymers</i> , 2020, 246, 116631.	10.2	6
77	Lemna minor aqueous extract as a natural ingredient incorporated in poly (vinyl alcohol)-based films for active food packaging systems. <i>Food Packaging and Shelf Life</i> , 2022, 32, 100822.	7.5	6
78	Color Fixation Strategies on Sustainable Poly-Butylene Succinate Using Biobased Itaconic Acid. <i>Polymers</i> , 2021, 13, 79.	4.5	4
79	Lignin-based materials with antioxidant and antimicrobial properties. , 2021, , 291-326.		3
80	Study of paperboard material layered with plasticized polyhydroxybutyrate/nanocellulose coatings for packaging application. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
81	Durability assessment of soft elastomeric capacitor skin for SHM of wind turbine blades. , 2018, , .		2
82	Polymeric composites and nanocomposites containing lignin. , 2022, , 293-324.		2
83	Influence of gallic acid and umbelliferone on structural and functional properties of poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.4	1
84	Natural Fibre Based Biopolymer Formulations with Potential Applications in Biomedical and Packaging Sector. <i>Mini-Reviews in Organic Chemistry</i> , 2021, 18, 450-464.	1.3	1
85	PLA nanocomposites from <i>Posidonia oceanica</i> waste. , 2017, , 347-363.		0