Maria-Beatrice Coltelli

List of Publications by Year
in descending order

74	3,195	147566	161609
papers	citations	31 h-index	54 g-index

75	75	75	3181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Essential Work of Fracture and Evaluation of the Interfacial Adhesion of Plasticized PLA/PBSA Blends with the Addition of Wheat Bran By-Product. Polymers, 2022, 14, 615.	2.0	9
2	Chitin Nanofibril-Nanolignin Complexes as Carriers of Functional Molecules for Skin Contact Applications. Nanomaterials, 2022, 12, 1295.	1.9	12
3	Characterization of chitin and chitosan derived from Hermetia illucens, a further step in a circular economy process. Scientific Reports, 2022, 12, 6613.	1.6	60
4	Influence of Functional Bio-Based Coatings Including Chitin Nanofibrils or Polyphenols on Mechanical Properties of Paper Tissues. Polymers, 2022, 14, 2274.	2.0	4
5	Poly(lactic acid) (PLA)/Poly(butylene succinate-co-adipate) (PBSA) Compatibilized Binary Biobased Blends: Melt Fluidity, Morphological, Thermo-Mechanical and Micromechanical Analysis. Polymers, 2021, 13, 218.	2.0	45
6	Biobased and Eco-Compatible Beauty Films Coated with Chitin Nanofibrils, Nanolignin and Vitamin E. Cosmetics, 2021, 8, 27.	1.5	18
7	Smart and Sustainable Hair Products Based on Chitin-Derived Compounds. Cosmetics, 2021, 8, 20.	1.5	8
8	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. Applied Sciences (Switzerland), 2021, 11, 4006.	1.3	13
9	Compatibilization of Poly(Lactic Acid) (PLA)/Plasticized Cellulose Acetate Extruded Blends through the Addition of Reactively Extruded Comb Copolymers. Molecules, 2021, 26, 2006.	1.7	12
10	Withdrawal Notice: Beauty and Wellness Turn Towards a Green Economy. Current Cosmetic Science, 2021, 01, .	0.1	0
11	Electrosprayed Shrimp and Mushroom Nanochitins on Cellulose Tissue for Skin Contact Application. Molecules, 2021, 26, 4374.	1.7	14
12	Volume Change during Creep and Micromechanical Deformation Processes in PLAâ€“PBSA Binary Blends. Polymers, 2021, 13, 2379.	2.0	13
13	Chain Extension of Poly(Lactic Acid) (PLA)â€“Based Blends and Composites Containing Bran with Biobased Compounds for Controlling Their Processability and Recyclability. Polymers, 2021, 13, 3050.	2.0	16
14	Antibacterial LDPE-based nanocomposites with salicylic and rosmarinic acid-modified layered double hydroxides. Applied Clay Science, 2021, 214, 106276.	2.6	17
15	Liquid and Solid Functional Bio-Based Coatings. Polymers, 2021, 13, 3640.	2.0	17
16	Rosmarinic Acid and Ulvan from Terrestrial and Marine Sources in Anti-Microbial Bionanosystems and Biomaterials. Applied Sciences (Switzerland), 2021, 11, 9249.	1.3	10
17	Analysis, Development, and Scaling-Up of Poly(lactic acid) (PLA) Biocomposites with Hazelnuts Shell Powder (HSP). Polymers, 2021, 13, 4080.	2.0	9
18	Fully Biobased Reactive Extrusion of Biocomposites Based on PLA Blends and Hazelnut Shell Powders (HSP). Chemistry, 2021, 3, 1464-1480.	0.9	4

#	Article	IF	Citations
19	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. Nature Communications, 2020, 11, 5991.	5.8	21
20	Effect of a Bio-Based Dispersing Aid (EinarÂ® 101) on PLA-ArbocelÂ® Biocomposites: Evaluation of the Interfacial Shear Stress on the Final Mechanical Properties. Biomolecules, 2020, 10, 1549.	1.8	7
21	Bio-Based Packaging: Materials, Modifications, Industrial Applications and Sustainability. Polymers, 2020, 12, 1558.	2.0	209
22	Fracture behavior and mechanical, thermal, and rheological properties of biodegradable films extruded by flat die and calender. Journal of Polymer Science, 2020, 58, 3264-3282.	2.0	13
23	Preparation and Compatibilization of PBS/Whey Protein Isolate Based Blends. Molecules, 2020, 25, 3313.	1.7	13
24	Trends in Surgical and Beauty Masks for a Cleaner Environment. Cosmetics, 2020, 7, 68.	1.5	26
25	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. Journal of Functional Biomaterials, 2020, 11, 62.	1.8	42
26	Preliminary Studies on an Innovative Bioactive Skin Soluble Beauty Mask Made by Combining Electrospinning and Dry Powder Impregnation. Cosmetics, 2020, 7, 96.	1.5	21
27	Biobased Materials for Skin-Contact Products Promoted by POLYBIOSKIN Project. Journal of Functional Biomaterials, 2020, 11, 77.	1.8	7
28	Modification of PLA-Based Films by Grafting or Coating. Journal of Functional Biomaterials, 2020, 11, 30.	1.8	14
29	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. Journal of Functional Biomaterials, 2020, 11, 20.	1.8	58
30	Sustainable Micro and Nano Additives for Controlling the Migration of a Biobased Plasticizer from PLA-Based Flexible Films. Polymers, 2020, 12, 1366.	2.0	36
31	Properties and Skin Compatibility of Films Based on Poly(Lactic Acid) (PLA) Bionanocomposites Incorporating Chitin Nanofibrils (CN). Journal of Functional Biomaterials, 2020, 11, 21.	1.8	36
32	Skin-Compatible Biobased Beauty Masks Prepared by Extrusion. Journal of Functional Biomaterials, 2020, 11, 23.	1.8	27
33	Overview of Agro-Food Waste and By-Products Valorization for Polymer Synthesis and Modification for Bio-Composite Production. Proceedings (mdpi), 2020, 69, .	0.2	5
34	Inspecting adhesion and cohesion of protectives and consolidants in sandstones of architectural heritage by X-ray microscopy methods. Materials Characterization, 2019, 156, 109853.	1.9	8
35	Flat Die Extruded Biocompatible Poly(Lactic Acid) (PLA)/Poly(Butylene Succinate) (PBS) Based Films. Polymers, 2019, 11, 1857.	2.0	41
36	Thermo-Mechanical Properties of PLA/Short Flax Fiber Biocomposites. Applied Sciences (Switzerland), 2019, 9, 3797.	1.3	63

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37	Chitin Nanofibrils in Poly(Lactic Acid) (PLA) Nanocomposites: Dispersion and Thermo-Mechanical Properties. International Journal of Molecular Sciences, 2019, 20, 504.	1.8	81
38	Improved Impact Properties in Poly(lactic acid) (PLA) Blends Containing Cellulose Acetate (CA) Prepared by Reactive Extrusion. Materials, 2019, 12, 270.	1.3	25
39	Chitin Nanofibrils and Nanolignin as Functional Agents in Skin Regeneration. International Journal of Molecular Sciences, 2019, 20, 2669.	1.8	70
40	Cosmetic Packaging to Save the Environment: Future Perspectives. Cosmetics, 2019, 6, 26.	1.5	53
41	Rubber Toughening of Polylactic Acid (PLA) with Poly(butylene adipate-co-terephthalate) (PBAT): Mechanical Properties, Fracture Mechanics and Analysis of Ductile-to-Brittle Behavior while Varying Temperature and Test Speed. European Polymer Journal, 2019, 115, 125-137.	2.6	97
42	Chitosan and nano-structured chitin for biobased anti-microbial treatments onto cellulose based materials. European Polymer Journal, 2019, 113, 328-339.	2.6	39
43	A New Carrier for Advanced Cosmeceuticals. Cosmetics, 2019, 6, 10.	1.5	45
44	Evaluation of Mechanical and Interfacial Properties of Bio-Composites Based on Poly(Lactic Acid) with Natural Cellulose Fibers. International Journal of Molecular Sciences, 2019, 20, 960.	1.8	71
45	Rigid filler toughening in PLA-Calcium Carbonate composites: Effect of particle surface treatment and matrix plasticization. European Polymer Journal, 2019, 113, 78-88.	2.6	70
46	Chitin nanofibrils in renewable materials for packaging and personal care applications. Advanced Materials Letters, 2019, 10, 425-430.	0.3	12
47	Poly(lactic acid) (PLA) Based Tear Resistant and Biodegradable Flexible Films by Blown Film Extrusion. Materials, 2018, 11, 148.	1.3	78
48	Preparation of Water Suspensions of Nanocalcite for Cultural Heritage Applications. Nanomaterials, 2018, 8, 254.	1.9	11
49	Effect of different nucleating agent on crystallinity and properties of polylactic acid. AIP Conference Proceedings, 2018, , .	0.3	1
50	Preparation of Innovative Skin Compatible Films to Release Polysaccharides for Biobased Beauty Masks. Cosmetics, 2018, 5, 70.	1.5	22
51	Chitin and lignin to produce biocompatible tissues. , 2018, 01, .		26
52	Effect of nucleating agents on crystallinity and properties of poly (lactic acid) (PLA). European Polymer Journal, 2017, 93, 822-832.	2.6	113
53	Reactively extruded ecocomposites based on poly(lactic acid)/bisphenol A polycarbonate blends reinforced with regenerated cellulose microfibers. Composites Science and Technology, 2017, 139, 127-137.	3.8	31
54	Pore Size Distribution and Blend Composition Affect In Vitro Prevascularized Bone Matrix Formation on Poly(Vinyl Alcohol)/Gelatin Sponges. Macromolecular Materials and Engineering, 2017, 302, 1700300.	1.7	14

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55	Effects of waviness on fiber-length distribution and interfacial shear strength of natural fibers reinforced composites. Composites Science and Technology, 2017, 152, 129-138.	3.8	41
56	Water-free, Proton-Conducting Hybrid Materials for Elevated-Temperature Electrochemical Systems. Journal of Physical Chemistry C, 2017, 121, 17129-17136.	1.5	2
57	Recyclability of PET/WPI/PE Multilayer Films by Removal of Whey Protein Isolate-Based Coatings with Enzymatic Detergents. Materials, 2016, 9, 473.	1.3	33
58	State of the Art in the Development and Properties of Protein-Based Films and Coatings and Their Applicability to Cellulose Based Products: An Extensive Review. Coatings, 2016, 6, 1.	1.2	164
59	Effect of Potato Pulp Filler on the Mechanical Properties and Water Vapor Transmission Rate of Thermoplastic WPI/PBS Blends. Polymer-Plastics Technology and Engineering, 2016, 55, 510-517.	1.9	17
60	Thermal Properties of Plasticized Poly (Lactic Acid) (PLA) Containing Nucleating Agent. International Journal of Chemical Engineering and Applications (IJCEA), 2016, 7, 85-88.	0.3	30
61	Optimizing the lignin based synthesis of flexible polyurethane foams employing reactive liquefying agents. Polymer International, 2015, 64, 1235-1244.	1.6	35
62	Cellulose Acetate Blends - Effect of Plasticizers on Properties and Biodegradability. Journal of Renewable Materials, 2014, 2, 35-41.	1.1	45
63	Effect of ageing time on mechanical properties of plasticized poly(hydroxybutyrate) (PHB). AIP Conference Proceedings, 2014, , .	0.3	6
64	Expanding the application field of postâ€consumer poly(ethylene terephthalate) through structural modification by reactive blending. Journal of Applied Polymer Science, 2014, 131, .	1.3	27
65	Compatibilization and property enhancement of poly(lactic acid)/polycarbonate blends through triacetin-mediated interchange reactions in the melt. Polymer, 2014, 55, 4498-4513.	1.8	75
66	Plasticized and nanofilled poly(lactic acid)â€based cast films: Effect of plasticizer and organoclay on processability and final properties. Journal of Applied Polymer Science, 2013, 127, 4947-4956.	1.3	33
67	Comparative study about preparation of poly(lactide)/Organophilic montmorillonites nanocomposites through melt blending or ring opening polymerization methods. Journal of Applied Polymer Science, 2012, 125, E413.	1.3	12
68	Chain extension and branching of poly(ethylene terephthalate) (PET) with di- and multifunctional epoxy or isocyanate additives: An experimental and modelling study. Reactive and Functional Polymers, 2012, 72, 50-60.	2.0	117
69	Isothermal Coldâ€Crystallization of PLA/PBAT Blends With and Without the Addition of Acetyl Tributyl Citrate. Macromolecular Chemistry and Physics, 2012, 213, 36-48.	1.1	88
70	Compatible blends of biorelated polyesters through catalytic transesterification in the melt. Polymer Degradation and Stability, 2011, 96, 982-990.	2.7	80
71	The effect of free radical reactions on structure and properties of poly(lactic acid) (PLA) based blends. Polymer Degradation and Stability, 2010, 95, 332-341.	2.7	102
72	Thermal degradation of poly(lactic acid) (PLA) and poly(butylene adipate-co-terephthalate) (PBAT) and their blends upon melt processing. Polymer Degradation and Stability, 2009, 94, 74-82.	2.7	370

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73	Influence of compatibilizer precursor structure on the phase distribution of low density poly(ethylene) in a poly(ethylene terephthalate) matrix. Polymer Engineering and Science, 2008, 48, 1424-1433.	1.5	20
74	Poly(lactic acid) properties as a consequence of poly(butylene adipateâ€coâ€terephthalate) blending and acetyl tributyl citrate plasticization. Journal of Applied Polymer Science, 2008, 110, 1250-1262.	1.3	110