Luigi Botta

List of Publications by Year
in descending order

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103	3,267	126708	174990
papers	citations	33 h-index	52 g-index

104	104	104	3464
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Streptomyces coelicolor Vesicles: Many Molecules To Be Delivered. Applied and Environmental Microbiology, 2022, 88, AEM0188121.	1.4	18
2	Biocomposite PBAT/lignin blown films with enhanced photo-stability. International Journal of Biological Macromolecules, 2022, 217, 161-170.	3.6	24
3	Structureâ€“Property Relationships in Bionanocomposites for Pipe Extrusion Applications. Polymers, 2021, 13, 782.	2.0	5
4	Bionanocomposite Blown Films: Insights on the Rheological and Mechanical Behavior. Polymers, 2021, 13, 1167.	2.0	19
5	Physical and biological properties of electrospun poly(<scp>d</scp>,<scp>l</scp>â€lactide)/nanoclay and poly(<scp>d</scp>,<scp>l</scp>â€lactide)/nanosilica nanofibrous scaffold for bone tissue engineering. Journal of Biomedical Materials Research - Part A, 2021, 109, 2120-2136.	2.1	19
6	Carvacrol activated biopolymeric foam: An effective packaging system to control the development of spoilage and pathogenic bacteria on sliced pumpkin and melon. Food Packaging and Shelf Life, 2021, 28, 100633.	3.3	19
7	Film Blowing of Biodegradable Polymer Nanocomposites for Agricultural Applications. Macromolecular Materials and Engineering, 2021, 306, 2100177.	1.7	16
8	Investigation on the Properties and on the Photo-Oxidation Behaviour of Polypropylene/Fumed Silica Nanocomposites. Polymers, 2021, 13, 2673.	2.0	5
9	PBAT Based Composites Reinforced with Microcrystalline Cellulose Obtained from Softwood Almond Shells. Polymers, 2021, 13, 2643.	2.0	19
10	In-Depth Investigation of the Safety of Wooden Shelves Used for Traditional Cheese Ripening. Applied and Environmental Microbiology, 2021, 87, e0152421.	1.4	12
11	Polyphasic Characterization of Microbiota of â€œMastreddaâ€, a Traditional Wooden Tool Used during the Production of PDO Provola dei Nebrodi Cheese. Applied Sciences (Switzerland), 2021, 11, 8647.	1.3	7
12	Combining carvacrol and nisin in biodegradable films for antibacterial packaging applications. International Journal of Biological Macromolecules, 2021, 193, 117-126.	3.6	14
13	Use of Biochar as Filler for Biocomposite Blown Films: Structure-Processing-Properties Relationships. Polymers, 2021, 13, 3953.	2.0	23
14	Morphology, Rheological and Mechanical Properties of Isotropic and Anisotropic PP/rPET/GnP Nanocomposite Samples. Nanomaterials, 2021, 11, 3058.	1.9	5
15	Slow Pyrolysis as a Method for Biochar Production from Carob Waste: Process Investigation and Productsâ€™ Characterization. Energies, 2021, 14, 8457.	1.6	12
16	Recycling of a Biodegradable Polymer Blend. Polymers, 2020, 12, 2297.	2.0	22
17	Effect of processing temperature and mixing time on the properties of PP/GnP nanocomposites. Polymer Degradation and Stability, 2020, 181, 109321.	2.7	9
18	Effect of ultraviolet and moisture action on biodegradable polymers and their blend. Journal of Applied Biomaterials and Functional Materials, 2020, 18, 228080002092665.	0.7	8

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19	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
20	Solid state 13C-NMR methodology for the cellulose composition studies of the shells of Prunus dulcis and their derived cellulosic materials. Carbohydrate Polymers, 2020, 240, 116290.	5.1	25
21	Fabrication of Bismuth Absorber Arrays for NTD-Ge Hard X-ray Microcalorimeters. Journal of Low Temperature Physics, 2020, 200, 336-341.	0.6	1
22	The Streptomyces coelicolor Small ORF trpM Stimulates Growth and Morphological Development and Exerts Opposite Effects on Actinorhodin and Calcium-Dependent Antibiotic Production. Frontiers in Microbiology, 2020, 11, 224.	1.5	11
23	Durability of Biodegradable Polymers for the Conservation of Cultural Heritage. Frontiers in Materials, 2019, 6, .	1.2	10
24	Antibacterial biopolymeric foams: Structureâ€“property relationship and carvacrol release kinetics. European Polymer Journal, 2019, 121, 109298.	2.6	17
25	Photo-oxidation of polypropylene/graphene nanoplatelets composites. Polymer Degradation and Stability, 2019, 160, 35-43.	2.7	35
26	Tunable release of Chlorhexidine from Polycaprolactone-based filaments containing graphene nanoplatelets. European Polymer Journal, 2019, 110, 221-232.	2.6	30
27	Compatibilization of Polypropylene/Polyamide 6 Blend Fibers Using Photo-Oxidized Polypropylene. Materials, 2019, 12, 81.	1.3	10
28	PLA based biocomposites reinforced with Posidonia oceanica leaves. Composites Part B: Engineering, 2018, 139, 1-11.	5.9	79
29	Biopolymeric bilayer films produced by co-extrusion film blowing. Polymer Testing, 2018, 65, 35-43.	2.3	29
30	â€œCompatibilizationâ€•through Elongational Flow Processing of LDPE/PA6 Blends. Materials, 2018, 11, 2375.	1.3	7
31	Rheological and mechanical properties of biodegradable nanocomposites. , 2018, , .		1
32	Injection Molding and Mechanical Properties of Bio-Based Polymer Nanocomposites. Materials, 2018, 11, 613.	1.3	13
33	Reprocessing of PLA/Graphene Nanoplatelets Nanocomposites. Polymers, 2018, 10, 18.	2.0	68
34	Effect of the elongational flow on morphology and properties of polypropylene/graphene nanoplatelets nanocomposites. Polymer Testing, 2018, 71, 10-17.	2.3	18
35	Electroplated bismuth absorbers for planar NTD-Ge sensor arrays applied to hard x-ray detection in astrophysics. , 2018, , .		1
36	Polycaprolactone-based scaffold for oil-selective sorption and improvement of bacteria activity for bioremediation of polluted water. European Polymer Journal, 2017, 91, 260-273.	2.6	40

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37	Polysaccharide nanocrystals as fillers for PLA based nanocomposites. Cellulose, 2017, 24, 447-478.	2.4	122
38	Plasma modified PLA electrospun membranes for actinorhodin production intensification in Streptomyces coelicolor immobilized-cell cultivations. Colloids and Surfaces B: Biointerfaces, 2017, 157, 233-241.	2.5	49
39	Preparation, characterization and hydrolytic degradation of PLA/PCL co-mingled nanofibrous mats prepared via dual-jet electrospinning. European Polymer Journal, 2017, 96, 266-277.	2.6	85
40	Degradation of polymer blends: A brief review. Polymer Degradation and Stability, 2017, 145, 79-92.	2.7	171
41	Electrospun PCL/GO-g-PEG structures: Processing-morphology-properties relationships. Composites Part A: Applied Science and Manufacturing, 2017, 92, 97-107.	3.8	111
42	PLA graphene nanoplatelets nanocomposites: Physical propertiesÂandÂrelease kinetics of an antimicrobial agent. Composites Part B: Engineering, 2017, 109, 138-146.	5.9	115
43	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	2.8	32
44	Effect of a Compatibilizer on the Morphology and Properties of Polypropylene/Polyethylentherephthalate Spun Fibers. Polymers, 2017, 9, 47.	2.0	22
45	Development of Polymeric Functionally Graded Scaffolds: A Brief Review. Journal of Applied Biomaterials and Functional Materials, 2017, 15, 107-121.	0.7	36
46	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. Polymers, 2017, 9, 76.	2.0	75
47	Structure-properties relationships in melt reprocessed PLA/hydrotalcites nanocomposites. EXPRESS Polymer Letters, 2017, 11, 555-564.	1.1	28
48	Incorporation of an Antibiotic in Poly(Lactic Acid) and Polypropylene by Melt Processing. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e240-e247.	0.7	4
49	Effect of Graphene Nanoplatelets on the Physical and Antimicrobial Properties of Biopolymer-Based Nanocomposites. Materials, 2016, 9, 351.	1.3	49
50	Effect of PCL/PEGâ€Based Membranes on Actinorhodin Production in Streptomyces coelicolor Cultivations. Macromolecular Bioscience, 2016, 16, 686-693.	2.1	17
51	Preparation and mechanical characterization of polycaprolactone/graphene oxide biocomposite nanofibers. AIP Conference Proceedings, 2016, , .	0.3	5
52	A simple method to interpret the rheological behaviour of intercalated polymer nanocomposites. Composites Part B: Engineering, 2016, 98, 382-388.	5.9	22
53	Synthesis and self-assembly of a PEGylated-graphene aerogel. Composites Science and Technology, 2016, 128, 193-200.	3.8	59
54	Integration of PCL and PLA in a monolithic porous scaffold for interface tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 303-313.	1.5	63

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55	A Facile and Eco-friendly Route to Fabricate Poly(Lactic Acid) Scaffolds with Graded Pore Size. Journal of Visualized Experiments, 2016, , .	0.2	7
56	Biopolymer based nanocomposites reinforced with graphene nanoplatelets. AIP Conference Proceedings, 2016, , .	0.3	4
57	Mechanical behavior of polylactic acid/polycaprolactone porous layered functional composites. Composites Part B: Engineering, 2016, 98, 70-77.	5.9	54
58	Melt Processed PCL/PEG Scaffold With Discrete Pore Size Gradient for Selective Cellular Infiltration. Macromolecular Materials and Engineering, 2016, 301, 182-190.	1.7	44
59	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	2.8	39
60	Preparation of three-layered porous PLA/PEG scaffold: relationship between morphology, mechanical behavior and cell permeability. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 54, 8-20.	1.5	90
61	TrpM, a Small Protein Modulating Tryptophan Biosynthesis and Morpho-Physiological Differentiation in Streptomyces coelicolor A3(2). PLoS ONE, 2016, 11, e0163422.	1.1	20
62	Influence of Drawing on the Antimicrobial and Physical Properties of Chlorhexidine-Compounded Poly(caprolactone) Monofilaments. Macromolecular Materials and Engineering, 2015, 300, 1268-1277.	1.7	23
63	Processing-property relationships of polypropylene/ciprofloxacin fibers. AIP Conference Proceedings, 2015, , .	0.3	1
64	New Polylactic Acid Composites Reinforced with Artichoke Fibers. Materials, 2015, 8, 7770-7779.	1.3	47
65	Processing and characterization of highly oriented fibres of biodegradable nanocomposites. Composites Part B: Engineering, 2015, 78, 1-7.	5.9	19
66	Tryptophan promotes morphological and physiological differentiation in Streptomyces coelicolor. Applied Microbiology and Biotechnology, 2015, 99, 10177-10189.	1.7	37
67	Characterization and Processability of Blends of Polylactide Acid with a New Biodegradable Medium-Chain-Length Polyhydroxyalkanoate. Journal of Polymers and the Environment, 2015, 23, 478-486.	2.4	31
68	Effect of temperature on the release of carvacrol and cinnamaldehyde incorporated into polymeric systems to control growth and biofilms ofEscherichia coliandStaphylococcus aureus. Biofouling, 2015, 31, 639-649.	0.8	25
69	Prediction of the morphology of polymer-clay nanocomposites. Polymer Testing, 2015, 41, 149-156.	2.3	9
70	Antimicrobial thermoplastic materials for biomedical applications prepared by melt processing. , 2014, , .		0
71	Graphene oxide-silica nanohybrids as fillers for PA6 based nanocomposites. , 2014, , .		2
72	Rheological behaviour, filmability and mechanical properties of biodegradable polymer films. AIP Conference Proceedings, 2014, , .	0.3	4

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73	Comparison of different processing methods to prepare poly(lactid acid)â€“hydrotalcite composites. Polymer Engineering and Science, 2014, 54, 1804-1810.	1.5	44
74	Statistical Study of the Influence of CNTs Purification and Plasma Functionalization on the Properties of Polycarbonate-CNTs Nanocomposites. Plasma Processes and Polymers, 2014, 11, 664-677.	1.6	45
75	Prediction of the flow curves of thermoplastic polymer/clay systems from torque data. Polymer Testing, 2014, 37, 12-18.	2.3	13
76	Degradation Behavior of Nanocomposite Polymer Blends. , 2014, , 423-447.		1
77	PLA based biocomposites reinforced with Arundo donax fillers. Composites Science and Technology, 2014, 105, 110-117.	3.8	107
78	Nanofilled Thermoplasticâ€“Thermoplastic Polymer Blends. , 2014, , 133-160.		10
79	Combining in the melt physical and biological properties of poly(caprolactone) and chlorhexidine to obtain antimicrobial surgical monofilaments. Applied Microbiology and Biotechnology, 2013, 97, 99-109.	1.7	59
80	Thermo-oxidative ageing of an organo-modified clay and effects on the properties of PA6 based nanocomposites. Thermochimica Acta, 2013, 552, 37-45.	1.2	21
81	Development and characterization of essential oil component-based polymer films: a potential approach to reduce bacterial biofilm. Applied Microbiology and Biotechnology, 2013, 97, 9515-9523.	1.7	55
82	Processing â€“ morphology â€“ property relationships of polyamide 6/polyethylene blendâ€“clay nanocomposites. EXPRESS Polymer Letters, 2013, 7, 873-884.	1.1	41
83	Study on carvacrol and cinnamaldehyde polymeric films: mechanical properties, release kinetics and antibacterial and antibiofilm activities. Applied Microbiology and Biotechnology, 2012, 96, 1029-1038.	1.7	137
84	Physical properties of virgin-recycled ABS blends: Effect of post-consumer content and of reprocessing cycles. European Polymer Journal, 2012, 48, 637-648.	2.6	99
85	Photo-oxidative degradation of poly(ethylene-co-vinyl acetate)/nisin antimicrobial films. Polymer Degradation and Stability, 2012, 97, 653-660.	2.7	29
86	Surface modification of poly(ethylene-co-acrylic acid) with amino-functionalized silica nanoparticles. Journal of Materials Chemistry, 2011, 21, 3849.	6.7	30
87	Effect of small amounts of poly(lactic acid) on the recycling of poly(ethylene terephthalate) bottles. Polymer Degradation and Stability, 2011, , .	2.7	23
88	Effect of kind and content of organoâ€modified clay on properties of PET nanocomposites. Journal of Applied Polymer Science, 2011, 122, 384-392.	1.3	47
89	Incorporation of Nisin in Poly (Ethylene-Co-Vinyl Acetate) Films by Melt Processing: A Study on the Antimicrobial Properties. Journal of Food Protection, 2011, 74, 1137-1143.	0.8	31
90	Control of biofilm formation by poly-ethylene-co-vinyl acetate films incorporating nisin. Applied Microbiology and Biotechnology, 2010, 87, 729-737.	1.7	43

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91	Modification of carboxyl groups of poly(ethylene-co-acrylic acid) via facile wet chemistry method: A kinetic study. Reactive and Functional Polymers, 2010, 70, 189-200.	2.0	8
92	Preparation and characterization of polyamide 6/polyethylene blend-clay nanocomposites in the presence of compatibilisers and stabilizing system. Polymer Degradation and Stability, 2010, 95, 2547-2554.	2.7	35
93	Effect of different matrices and nanofillers on the rheological behavior of polymerâ€clay nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 344-355.	2.4	35
94	Photo-oxidation Behaviour of EVA Antimicrobial Films. , 2010, , .		0
95	Preparation and Characterization of Polyolefinâ€Based Nanocomposite Blown Films for Agricultural Applications. Macromolecular Materials and Engineering, 2009, 294, 445-454.	1.7	29
96	Competition between chain scission and branching formation in the processing of highâ€density polyethylene: Effect of processing parameters and of stabilizers. Polymer Engineering and Science, 2009, 49, 1316-1325.	1.5	16
97	The role of organoclay and matrix type in photo-oxidation of polyolefin/clay nanocomposite films. Polymer Degradation and Stability, 2009, 94, 712-718.	2.7	47
98	Reactions Occurring during the Melt Mixing of Nylon 6 and Oxazolineâ^'Cyclophosphazene Units. Macromolecules, 2009, 42, 5579-5592.	2.2	11
99	Rheological Response of Polyethylene/Clay Nanocomposites to Annealing Treatment. Macromolecular Chemistry and Physics, 2007, 208, 2533-2541.	1.1	21
100	Effect of adding new phosphazene compounds to poly(butylene terephthalate)/polyamide blends. II: Effect of different polyamides on the properties of extruded samples. Polymer Degradation and Stability, 2006, 91, 2265-2274.	2.7	17
101	Effect of adding new phosphazene compounds to poly(butylene terephthalate)/polyamide blends. I: Preliminary study in a batch mixer. Polymer Degradation and Stability, 2005, 90, 234-243.	2.7	25
102	In vitro Antifungal Activity of Biopolymeric Foam Activated with Carvacrol. Journal of Food Quality and Hazards Control, 0, , .	0.1	2
103	On The Use Of Polyolefins Based Nanocomposites For Film Blowing Applications. , 0, , 243-252.		0