Andrea Maio

List of Publications by Year
in descending order

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50 papers	2,289 citations	136950 32 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	2205 citing authors

#	Article	IF	Citations
1	Degradation and Recycling of Films Based on Biodegradable Polymers: A Short Review. Polymers, 2019, 11, 651.	4.5	156
2	Polysaccharide nanocrystals as fillers for PLA based nanocomposites. Cellulose, 2017, 24, 447-478.	4.9	122
3	PLA graphene nanoplatelets nanocomposites: Physical propertiesÂandÂrelease kinetics of an antimicrobial agent. Composites Part B: Engineering, 2017, 109, 138-146.	12.0	115
4	Electrospun PCL/GO-g-PEG structures: Processing-morphology-properties relationships. Composites Part A: Applied Science and Manufacturing, 2017, 92, 97-107.	7.6	111
5	Effect of adding wood flour to the physical properties of a biodegradable polymer. Composites Part A: Applied Science and Manufacturing, 2008, 39, 503-513.	7.6	98
6	A green method to prepare nanosilica modified graphene oxide to inhibit nanoparticles re-aggregation during melt processing. Chemical Engineering Journal, 2017, 308, 1034-1047.	12.7	93
7	A novel approach to prevent graphene oxide re-aggregation during the melt compounding with polymers. Composites Science and Technology, 2015, 119, 131-137.	7.8	79
8	Advanced piezoresistive sensor achieved by amphiphilic nanointerfaces of graphene oxide and biodegradable polymer blends. Composites Science and Technology, 2018, 156, 166-176.	7.8	78
9	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. Polymers, 2017, 9, 76.	4.5	75
10	Physical properties of green composites based on poly-lactic acid or Mater-BiÂ® filled with Posidonia Oceanica leaves. Composites Part A: Applied Science and Manufacturing, 2018, 112, 315-327.	7.6	65
11	Perfluorocarbonsâ€“graphene oxide nanoplatforms as biocompatible oxygen reservoirs. Chemical Engineering Journal, 2018, 334, 54-65.	12.7	60
12	Structure-property relationship of PLA-Opuntia Ficus Indica biocomposites. Composites Part B: Engineering, 2019, 167, 199-206.	12.0	60
13	Synthesis and self-assembly of a PEGylated-graphene aerogel. Composites Science and Technology, 2016, 128, 193-200.	7.8	59
14	Plasma Functionalization of Multiwalled Carbon Nanotubes and Their Use in the Preparation of Nylon 6â€Based Nanohybrids. Plasma Processes and Polymers, 2012, 9, 503-512.	3.0	54
15	Mechanical behavior of polylactic acid/polycaprolactone porous layered functional composites. Composites Part B: Engineering, 2016, 98, 70-77.	12.0	54
16	Effect of Graphene Nanoplatelets on the Physical and Antimicrobial Properties of Biopolymer-Based Nanocomposites. Materials, 2016, 9, 351.	2.9	49
17	Effect of graphene and fabrication technique on the release kinetics of carvacrol from polylactic acid. Composites Science and Technology, 2019, 169, 60-69.	7.8	46
18	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.	3.0	45

#	Article	IF	Citations
19	Green Composites Based on PLA and Agricultural or Marine Waste Prepared by FDM. Polymers, 2021, 13, 1361.	4.5	45
20	Integrated ternary bionanocomposites with superior mechanical performance via the synergistic role of graphene and plasma treated carbon nanotubes. Composites Part B: Engineering, 2019, 168, 550-559.	12.0	43
21	Synthesis of a fluorinated graphene oxideâ€“silica nanohybrid: improving oxygen affinity. RSC Advances, 2016, 6, 46037-46047.	3.6	41
22	Mechanical behaviour of Mater-BiÂ®/wood flour composites: A statistical approach. Composites Part A: Applied Science and Manufacturing, 2008, 39, 1537-1546.	7.6	40
23	Lignocellulosic fillers and graphene nanoplatelets as hybrid reinforcement for polylactic acid: Effect on mechanical properties and degradability. Composites Science and Technology, 2020, 190, 108008.	7.8	40
24	High performance PA6/CNTs nanohybrid fibers prepared in the melt. Composites Science and Technology, 2012, 72, 1918-1923.	7.8	39
25	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	5.5	39
26	Optimization of two-step techniques engineered for the preparation of polyamide 6 graphene oxide nanocomposites. Composites Part B: Engineering, 2019, 165, 55-64.	12.0	39
27	Ionic tactile sensors as promising biomaterials for artificial skin: Review of latest advances and future perspectives. European Polymer Journal, 2021, 151, 110421.	5.4	38
28	Enhancing the mechanical performance of polymer based nanocomposites by plasma-modification of nanoparticles. Polymer Testing, 2012, 31, 889-894.	4.8	37
29	Influence of Oxidation Level of Graphene Oxide on the Mechanical Performance and Photo-Oxidation Resistance of a Polyamide 6. Polymers, 2019, 11, 857.	4.5	37
30	Rapid One-Step Fabrication of Graphene Oxide-Decorated Polycaprolactone Three-Dimensional Templates for Water Treatment. ACS Applied Polymer Materials, 2020, 2, 4993-5005.	4.4	37
31	Development of Polymeric Functionally Graded Scaffolds: A Brief Review. Journal of Applied Biomaterials and Functional Materials, 2017, 15, 107-121.	1.6	36
32	An Overview of Functionalized Graphene Nanomaterials for Advanced Applications. Nanomaterials, 2021, 11, 1717.	4.1	36
33	The Effects of Nanoclay on the Mechanical Properties, Carvacrol Release and Degradation of a PLA/PBAT Blend. Materials, 2020, 13, 983.	2.9	33
34	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	5.5	32
35	Tunable release of Chlorhexidine from Polycaprolactone-based filaments containing graphene nanoplatelets. European Polymer Journal, 2019, 110, 221-232.	5.4	30
36	Processing-structure-property relationships of electrospun PLA-PEO membranes reinforced with enzymatic cellulose nanofibers. Polymer Testing, 2020, 81, 106182.	4.8	30

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37	PLA-based functionally graded laminates for tunable controlled release of carvacrol obtained by combining electrospinning with solvent casting. Reactive and Functional Polymers, 2020, 148, 104490.	4.1	24
38	Poly(lactic acid)/carvacrol-based materials: preparation, physicochemical properties, and antimicrobial activity. Applied Microbiology and Biotechnology, 2020, 104, 1823-1835.	3.6	23
39	Green Composites Based on Hedysarum coronarium with Outstanding FDM Printability and Mechanical Performance. Polymers, 2022, 14, 1198.	4.5	20
40	Effect of an organoclay on the photochemical transformations of a PBAT/PLA blend and morpho-chemical features of crosslinked networks. Polymer Degradation and Stability, 2021, 187, 109549.	5.8	19
41	An innovative route to prepare in situ graded crosslinked PVA graphene electrospun mats for drug release. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106827.	7.6	19
42	Hydrolytic degradation of PLA/Posidonia Oceanica green composites: A simple model based on starting morpho-chemical properties. Composites Science and Technology, 2021, 213, 108930.	7.8	18
43	Bilayer biodegradable films prepared by co-extrusion film blowing: Mechanical performance, release kinetics of an antimicrobial agent and hydrolytic degradation. Composites Part A: Applied Science and Manufacturing, 2020, 132, 105836.	7.6	17
44	Wet electrospinning-aided self-assembly of multifunctional GO-CNT@PCL core-shell nanocomposites with spider leg bioinspired hierarchical architectures. Composites Science and Technology, 2022, 221, 109363.	7.8	17
45	Flexible mats as promising antimicrobial systems via integration of Thymus capitatus (L.) essential oil into PLA. Future Microbiology, 2020, 15, 1379-1392.	2.0	13
46	A Facile and Eco-friendly Route to Fabricate Poly(Lactic Acid) Scaffolds with Graded Pore Size. Journal of Visualized Experiments, 2016, , .	0.3	7
47	Modelling the structure-property relationships of high performance PBAT-based biocomposites with natural fibers obtained from Chamaerops humilis dwarf palm. Composites Science and Technology, 2022, 223, 109427.	7.8	7
48	Preparation and mechanical characterization of polycaprolactone/graphene oxide biocomposite nanofibers. AIP Conference Proceedings, 2016, , .	0.4	5
49	Incorporation of an Antibiotic in Poly(Lactic Acid) and Polypropylene by Melt Processing. Journal of Applied Biomaterials and Functional Materials, 2016, 14, e240-e247.	1.6	4
50	Effect of alkyl derivatization of gellan gum during the fabrication of electrospun membranes. Journal of Industrial Textiles, 0, , 152808372110075.	2.4	3