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	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
2	Green Composites Based on Hedysarum coronarium with Outstanding FDM Printability and Mechanical Performance. Polymers, 2022, 14, 1198.	4.5	20
3	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
4	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
5	Green Composites Based on PLA and Agricultural or Marine Waste Prepared by FDM. Polymers, 2021, 13, 1361.	4.5	45
6	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
7	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
8	An Overview of Functionalized Graphene Nanomaterials for Advanced Applications. Nanomaterials, 2021, 11, 1717.	4.1	36
9	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
10	Processing-structure-property relationships of electrospun PLA-PEO membranes reinforced with enzymatic cellulose nanofibers. Polymer Testing, 2020, 81, 106182.	4.8	30
11	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
12	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
13	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
14	The Effects of Nanoclay on the Mechanical Properties, Carvacrol Release and Degradation of a PLA/PBAT Blend. Materials, 2020, 13, 983.	2.9	33
15	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
16	Poly(lactic acid)/carvacrol-based materials: preparation, physicochemical properties, and antimicrobial activity. Applied Microbiology and Biotechnology, 2020, 104, 1823-1835.	3.6	23
17	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
18	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

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19	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
20	Degradation and Recycling of Films Based on Biodegradable Polymers: A Short Review. Polymers, 2019, 11, 651.	4.5	156
21	Structure-property relationship of PLA-Opuntia Ficus Indica biocomposites. Composites Part B: Engineering, 2019, 167, 199-206.	12.0	60
22	Tunable release of Chlorhexidine from Polycaprolactone-based filaments containing graphene nanoplatelets. European Polymer Journal, 2019, 110, 221-232.	5.4	30
23	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
24	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
25	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
26	Perfluorocarbonsâ€“graphene oxide nanoplatforms as biocompatible oxygen reservoirs. Chemical Engineering Journal, 2018, 334, 54-65.	12.7	60
27	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
28	Polysaccharide nanocrystals as fillers for PLA based nanocomposites. Cellulose, 2017, 24, 447-478.	4.9	122
29	Electrospun PCL/GO-g-PEG structures: Processing-morphology-properties relationships. Composites Part A: Applied Science and Manufacturing, 2017, 92, 97-107.	7.6	111
30	PLA graphene nanoplatelets nanocomposites: Physical propertiesÂandÂrelease kinetics of an antimicrobial agent. Composites Part B: Engineering, 2017, 109, 138-146.	12.0	115
31	Structural and thermal stability of graphene oxide-silica nanoparticles nanocomposites. Journal of Alloys and Compounds, 2017, 695, 2054-2064.	5.5	32
32	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
33	Development of Polymeric Functionally Graded Scaffolds: A Brief Review. Journal of Applied Biomaterials and Functional Materials, 2017, 15, 107-121.	1.6	36
34	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. Polymers, 2017, 9, 76.	4.5	75
35	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
36	Effect of Graphene Nanoplatelets on the Physical and Antimicrobial Properties of Biopolymer-Based Nanocomposites. Materials, 2016, 9, 351.	2.9	49

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37	Preparation and mechanical characterization of polycaprolactone/graphene oxide biocomposite nanofibers. AIP Conference Proceedings, 2016, , .	0.4	5
38	Synthesis and self-assembly of a PEGylated-graphene aerogel. Composites Science and Technology, 2016, 128, 193-200.	7.8	59
39	Synthesis of a fluorinated graphene oxideâ€“silica nanohybrid: improving oxygen affinity. RSC Advances, 2016, 6, 46037-46047.	3.6	41
40	A Facile and Eco-friendly Route to Fabricate Poly(Lactic Acid) Scaffolds with Graded Pore Size. Journal of Visualized Experiments, 2016, , .	0.3	7
41	Mechanical behavior of polylactic acid/polycaprolactone porous layered functional composites. Composites Part B: Engineering, 2016, 98, 70-77.	12.0	54
42	A rapid and eco-friendly route to synthesize graphene-doped silica nanohybrids. Journal of Alloys and Compounds, 2016, 664, 428-438.	5.5	39
43	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
44	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
45	Enhancing the mechanical performance of polymer based nanocomposites by plasma-modification of nanoparticles. Polymer Testing, 2012, 31, 889-894.	4.8	37
46	High performance PA6/CNTs nanohybrid fibers prepared in the melt. Composites Science and Technology, 2012, 72, 1918-1923.	7.8	39
47	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
48	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
49	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
50	Effect of alkyl derivatization of gellan gum during the fabrication of electrospun membranes. Journal of Industrial Textiles, 0, , 152808372110075.	2.4	3