Vittoria Vittoria

List of Publications by Year
in descending order

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109 papers	5,080 citations	87723 38 h-index	91712 69 g-index
111 all docs	111 docs citations	111 times ranked	5215 citing authors

#	Article	IF	Citations
1	Potential perspectives of bio-nanocomposites for food packaging applications. Trends in Food Science and Technology, 2007, 18, 84-95.	7.8	885
2	Vapor barrier properties of polycaprolactone montmorillonite nanocomposites: effect of clay dispersion. Polymer, 2003, 44, 2271-2279.	1.8	307
3	Structural characterization and transport properties of organically modified montmorillonite/polyurethane nanocomposites. Polymer, 2002, 43, 6147-6157.	1.8	176
4	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. Carbon, 2009, 47, 2419-2430.	5.4	150
5	Biodegradable nanocomposites obtained by ball milling of pectin and montmorillonites. Carbohydrate Polymers, 2006, 64, 516-523.	5.1	138
6	Nano clay reinforced PCL/starch blends obtained by high energy ball milling. Carbohydrate Polymers, 2009, 75, 172-179.	5.1	135
7	Development of epoxy mixtures for application in aeronautics and aerospace. RSC Advances, 2014, 4, 15474-15488.	1.7	133
8	Solvent-induced crystallization of glassy syndiotactic polystyrene. Die Makromolekulare Chemie Rapid Communications, 1988, 9, 765-769.	1.1	131
9	New Polymeric Composites Based on Poly(Îµ-caprolactone) and Layered Double Hydroxides Containing Antimicrobial Species. ACS Applied Materials & Interfaces, 2009, 1, 668-677.	4.0	131
10	Incorporation of carbon nanotubes into polyethylene by high energy ball milling: Morphology and physical properties. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 597-606.	2.4	127
11	Incorporation of Mgâ€“Al hydrotalcite into a biodegradable Poly(Îµ-caprolactone) by high energy ball milling. Polymer, 2005, 46, 1601-1608.	1.8	107
12	Chemical and morphologial modifications of irradiated linear low density polyethylene (LLDPE). Polymer Degradation and Stability, 2001, 72, 175-186.	2.7	105
13	The role of carbon nanofiber defects on the electrical and mechanical properties of CNF-based resins. Nanotechnology, 2013, 24, 305704.	1.3	97
14	Transport and mechanical properties of blends of poly(?-caprolactone) and a modified montmorillonite- poly(?-caprolactone) nanocomposite. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1118-1124.	2.4	92
15	Transport properties of organic vapors in nanocomposites of organophilic layered silicate and syndiotactic polypropylene. Polymer, 2003, 44, 3679-3685.	1.8	88
16	Transport Properties of Modified Montmorillonite-Poly(e-caprolactone) Nanocomposites. Macromolecular Materials and Engineering, 2002, 287, 243.	1.7	86
17	Strain and damage monitoring in carbon-nanotube-based composite under cyclic strain. Composites Part A: Applied Science and Manufacturing, 2015, 71, 9-16.	3.8	84
18	Pectins filled with LDH-antimicrobial molecules: Preparation, characterization and physical properties. Carbohydrate Polymers, 2012, 89, 132-137.	5.1	83

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19	Modified layered double hydroxides in polycaprolactone as a tunable delivery system: in vitro release of antimicrobial benzoate derivatives. Applied Clay Science, 2011, 52, 34-40.	2.6	77
20	Synthesis and physical properties of layered silicates/polyurethane nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2454-2467.	2.4	73
21	Nano-hybrids incorporation into poly(Îµ-caprolactone) for multifunctional applications: Mechanical and barrier properties. European Polymer Journal, 2010, 46, 418-427.	2.6	73
22	Physical properties of poly(Îµ-caprolactone) layered silicate nanocomposites prepared by controlled grafting polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1466-1475.	2.4	67
23	Effect of Filler Content and Size on Transport Properties of Water Vapor in PLA/Calcium Sulfate Composites. Biomacromolecules, 2008, 9, 984-990.	2.6	55
24	Use of Hoveydaâ€“Grubbsâ€™ second generation catalyst in self-healing epoxy mixtures. Composites Part B: Engineering, 2011, 42, 296-301.	5.9	55
25	Polymorphism and Thermal Behaviour of Syndiotactic Poly(propylene)/Carbon Nanotube Composites. Macromolecular Rapid Communications, 2004, 25, 1963-1967.	2.0	51
26	Dispersion of modified layered double hydroxides in Poly(ethylene terephthalate) by High Energy Ball Milling for food packaging applications. European Polymer Journal, 2014, 52, 172-180.	2.6	50
27	Cure Behavior and Physical Properties of Epoxy Resinâ€”Filled with Multiwalled Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2010, 10, 2686-2693.	0.9	49
28	Nanometric Dispersion of a Mg/Al Layered Double Hydroxide into a Chemically Modified Polycaprolactone. Biomacromolecules, 2007, 8, 773-779.	2.6	45
29	Cure behavior and mechanical properties of structural selfâ€healing epoxy resins. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2413-2423.	2.4	45
30	Fabrication and sustained release properties of poly(Îµ-caprolactone) electrospun fibers loaded with layered double hydroxide nanoparticles intercalated with amoxicillin. Applied Clay Science, 2013, 72, 104-109.	2.6	45
31	Effect of carbon nanotubes on the photo-oxidative durability of syndiotactic polypropylene. Polymer Degradation and Stability, 2010, 95, 1614-1626.	2.7	43
32	Chemical modification of pectin: environmental friendly process for new potential material development. Polymer Chemistry, 2011, 2, 800.	1.9	43
33	Encapsulation and Exfoliation of Inorganic Lamellar Fillers into Polycaprolactone by Electrospinning. Biomacromolecules, 2007, 8, 3147-3152.	2.6	42
34	Mechanical and transport properties of irradiated linear low density polyethylene (LLDPE). Polymer Degradation and Stability, 2001, 72, 239-247.	2.7	41
35	Solvent-Free Synthesis of Modified Pectin Compounds Promoted by Microwave Irradiation. Molecules, 2012, 17, 12234-12242.	1.7	40
36	Carbon nanotube induced structural and physical property transitions of syndiotactic polypropylene. Nanotechnology, 2007, 18, 275703.	1.3	39

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37	Comparison of the physical properties of epoxyâ€based composites filled with different types of carbon nanotubes for aeronautic applications. Advances in Polymer Technology, 2012, 31, 205-218.	0.8	39
38	Photooxidation of spherilene linear low-density polyethylene films subjected to environmental weathering. 1. Changes in mechanical properties. Polymer Degradation and Stability, 2004, 85, 1009-1013.	2.7	38
39	Improvement of the electrical conductivity in multiphase epoxy-based MWCNT nanocomposites by means of an optimized clay content. Composites Science and Technology, 2013, 89, 69-76.	3.8	38
40	Pectin functionalized with natural fatty acids as antimicrobial agent. International Journal of Biological Macromolecules, 2014, 68, 28-32.	3.6	37
41	Physical and Water Sorption Properties of Chemically Modified Pectin with an Environmentally Friendly Process. Biomacromolecules, 2011, 12, 2311-2318.	2.6	36
42	Transport properties of organic vapors in nanocomposites of isotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1798-1805.	2.4	35
43	Methods of preparation of novel composites of poly(?-caprolactone) and a modified Mg/Al hydrotalcite. Journal of Polymer Science Part A, 2005, 43, 2281-2290.	2.5	35
44	Effect of layered double hydroxide intercalated with fluoride ions on the physical, biological and release properties of a dental composite resin. Journal of Dentistry, 2014, 42, 60-67.	1.7	35
45	Effect of resveratrol release kinetic from electrospun nanofibers on osteoblast and osteoclast differentiation. European Polymer Journal, 2018, 99, 289-297.	2.6	35
46	New nanohybrids of poly(É›-caprolactone) and a modified Mg/Al hydrotalcite: Mechanical and thermal properties. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 945-954.	2.4	34
47	Encapsulation of Diclofenac Molecules into Poly(-Caprolactone) Electrospun Fibers for Delivery Protection. Journal of Nanomaterials, 2009, 2009, 1-8.	1.5	33
48	Phase behavior of modified montmorillonite- poly(?-caprolactone) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1321-1332.	2.4	30
49	Active packaging for table grapes: Evaluation of antimicrobial performances of packaging for shelf life of the grapes under thermal stress. Food Packaging and Shelf Life, 2020, 25, 100545.	3.3	30
50	Ionic Liquid as Dispersing Agent of LDH-Carbon Nanotubes into a Biodegradable Vinyl Alcohol Polymer. Polymers, 2020, 12, 495.	2.0	29
51	Transport Properties of Water Vapor in Polylactide/Montmorillonite Nanocomposites. Journal of Macromolecular Science - Physics, 2004, 43, 565-575.	0.4	27
52	Active coating for storage of Mozzarella cheese packaged under thermal abuse. Food Control, 2016, 64, 10-16.	2.8	27
53	Sub-Tg annealing of the clathrate Î´ form of syndiotactic polystyrene. Macromolecular Chemistry and Physics, 1998, 199, 2671-2675.	1.1	26
54	Influence of the electrical field applied during thermal cycling on the conductivity of LLDPE/CNT composites. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 66-71.	1.3	26

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55	Deposition of LDH on plasma treated polylactic acid to reduce water permeability. Journal of Colloid and Interface Science, 2013, 396, 47-52.	5.0	26
56	Polymorphic solidification of Linezolid confined in electrospun PCL fibers for controlled release in topical applications. International Journal of Pharmaceutics, 2015, 490, 32-38.	2.6	24
57	Modified Hydrotalciteâ€“Like Compounds as Active Fillers of Biodegradable Polymers for Drug Release and Food Packaging Applications. Recent Patents on Nanotechnology, 2012, 6, 218-230.	0.7	23
58	Fabrication and Characterization of Poly(lactic acid)/Poly(<I>Îµ</I>-caprolactone) Blend Electrospun Fibers Loaded with Amoxicillin for Tunable Delivering. Journal of Nanoscience and Nanotechnology, 2015, 15, 4706-4712.	0.9	19
59	Antimicrobial and Antibiofilm Activity of Curcumin-Loaded Electrospun Nanofibers for the Prevention of the Biofilm-Associated Infections. Molecules, 2021, 26, 4866.	1.7	18
60	Behavior of epoxy composite resins in environments at high moisture content. Journal of Polymer Research, 2013, 20, 1.	1.2	17
61	Coaxial electrospun membranes of poly(Îµâ€caprolactone)/poly(lactic acid) with reverse <scp>coreâ€shell</scp> structures loaded with curcumin as tunable drug delivery systems. Polymers for Advanced Technologies, 2021, 32, 4005-4013.	1.6	17
62	Structural modifications induced by recycling of polypropylene. Polymer Engineering and Science, 1999, 39, 1661-1666.	1.5	16
63	Influence of the powder dimensions on the antimicrobial properties of modified layered double hydroxide. Applied Clay Science, 2013, 75-76, 46-51.	2.6	16
64	Preparation, Characterization and Antibacterial Activity of Poly(<I>Îµ</I>-caprolactone) Electrospun Fibers Loaded with Amoxicillin for Controlled Release in Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2013, 13, 1717-1726.	0.9	16
65	Elastic Behaviour of Oriented Syndiotactic Poly(propylene). Macromolecular Rapid Communications, 2001, 22, 104-108.	2.0	15
66	Preparation and Physical Properties of Carbon Nanotubesâ€“PVA Nanocomposites. Journal of Macromolecular Science - Physics, 2005, 44, 779-795.	0.4	15
67	Antimicrobial sorbate anchored to layered double hydroxide (LDH) nano-carrier employed as active coating on Polypropylene (PP) packaging: Application to bread stored at ambient temperature. Future Foods, 2021, 4, 100063.	2.4	14
68	Interfacial effects in organophilic montmorillonite-poly(?-caprolactone) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 3907-3919.	2.4	13
69	Nanocomposites of syndiotactic polypropylene: Phase behavior and morphology. Polymer Engineering and Science, 2006, 46, 1433-1442.	1.5	13
70	Multifunctional Bioactive Resin for Dental Restorative Materials. Polymers, 2020, 12, 332.	2.0	13
71	Correlation between microstructure and physical properties in styreneâ€“ethylene copolymers. Journal of Applied Polymer Science, 1995, 58, 1701-1706.	1.3	12
72	Miscibility in crystalline polymer blends: Isotactic polypropylene and linear low-density polyethylene. Journal of Applied Polymer Science, 2003, 90, 3338-3346.	1.3	12

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73	Structural and morphological changes during UV irradiation of the trans-planar form of syndiotactic polypropylene. Polymer Degradation and Stability, 2008, 93, 176-187.	2.7	12
74	Dependence of electrical properties of polypropylene isomers on morphology and chain conformation. Journal Physics D: Applied Physics, 2009, 42, 135405.	1.3	12
75	Permeability in Clay/Polyesters Nano-Biocomposites. Green Energy and Technology, 2012, , 237-264.	0.4	12
76	PET and Active Coating Based on a LDH Nanofiller Hosting p-Hydroxybenzoate and Food-Grade Zeolites: Evaluation of Antimicrobial Activity of Packaging and Shelf Life of Red Meat. Nanomaterials, 2019, 9, 1727.	1.9	12
77	Influence of aging on the crystallization phenomenon of isotactic polystyrene. Journal of Macromolecular Science - Physics, 1996, 35, 147-155.	0.4	11
78	Studies of the Î³ â†•Î± transition in syndiotactic polystyrene. Macromolecular Symposia, 1999, 138, 209-214.	0.4	11
79	Phase Behavior of Blends of Poly(Ïµâ€Caprolactone) and a Modified Montmorilloniteâ€Poly(Ïµâ€Caprolactone) Nanocomposite. Journal of Macromolecular Science - Physics, 2005, 44, 79-92.	0.4	10
80	A biocompatible process to prepare hyaluronan-based material able to self-assemble into stable nano-particles. RSC Advances, 2015, 5, 29573-29576.	1.7	10
81	Physical and barrier properties of chemically modified pectin with polycaprolactone through an environmentally friendly process. Colloid and Polymer Science, 2021, 299, 429-437.	1.0	10
82	Electrical properties of multi-walled carbon nanotube/tetrafunctional epoxy-amine composites. , 2012, , .		9
83	Recycling polyethylene from automotive fuel tanks. Journal of Applied Polymer Science, 2002, 86, 347-351.	1.3	8
84	Solvent induced polymorphism of quenched syndiotactic polypropylene in different liquids. Colloid and Polymer Science, 2003, 281, 469-475.	1.0	8
85	Equilibrium thermal behavior and morphology of organophilic montmorillonite/poly(É›-caprolactone) nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 22-32.	2.4	8
86	Dynamic Mechanical Properties of Structural Self-Healing Epoxy Resins. Applied Mechanics and Materials, 0, 62, 95-105.	0.2	8
87	Development of Nanostructured Thermoregulating Textile Materials. Journal of Nanoscience and Nanotechnology, 2008, 8, 4399-4403.	0.9	6
88	Influence of ageing on the ordering phenomena of syndiotactic polystyrene. Macromolecular Chemistry and Physics, 1994, 195, 735-741.	1.1	5
89	Cast-extruded syndiotactic polypropylene films: preliminary structural and mechanical results. Macromolecular Symposia, 2002, 180, 23-32.	0.4	5
90	Structural changes during annealing of the crystalline helical form of syndiotactic polypropylene. Journal of Macromolecular Science - Physics, 2002, 41, 289-305.	0.4	5

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91	Fabrication and characterization of electrospun polylactide/Î²-tricalcium phosphate hybrid meshes for potential applications in hard tissue repair. BioNanoMaterials, 2014, 15, .	1.4	5
92	Correlation Between Structural and Dynamicâ€Mechanical Transitions of Different Syndiotactic Polypropylene Polymorphs. Journal of Macromolecular Science - Physics, 2004, 43, 349-363.	0.4	4
93	Crystallization kinetics and morphology of the mesomorphic form of syndiotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 936-944.	2.4	4
94	Enhanced in Vitro Antitumor Activity of a Titanocene Complex Encapsulated into Polycaprolactone (PCL) Electrospun Fibers. Journal of Applied Biomaterials and Functional Materials, 2013, 11, 61-70.	0.7	4
95	Thermally Induced Structural and Dynamicâ€Mechanical Transition of Form II of Syndiotactic Polypropylene. Journal of Macromolecular Science - Physics, 2004, 43, 883-891.	0.4	3
96	Evaluation of the electrical properties of epoxy-based nanocomposites for motor insulation. , 2011, , .		3
97	Solvent induced structural transitions in a liquid crystalline polyester. Macromolecular Rapid Communications, 1996, 17, 447-454.	2.0	2
98	Recognition of the syndiotactic polypropylene polymorphs via dynamic-mechanical analysis. Macromolecular Symposia, 2003, 203, 285-294.	0.4	2
99	Mechanoâ€reversible physical aging of elastic oriented syndiotactic polypropylene. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 599-606.	2.4	2
100	Elasticity of syndiotactic polypropylene: Insights from temperature and time dependence. European Polymer Journal, 2009, 45, 2192-2201.	2.6	2
101	FT-IR Investigation of Hoveyda-Grubbsâ€™2nd Generation Catalyst in Self-Healing Epoxy Mixtures. , 2010, , .		2
102	Influence of molecular weight on the structure and ageing behavior of quenched syndiotactic poly(propylene). Macromolecular Chemistry and Physics, 2002, 203, 1420-1426.	1.1	1
103	Structural Changes During Annealing of Meltâ€Quenched Syndiotactic Polypropylene in the Transâ€Planar Mesophase. Journal of Macromolecular Science - Physics, 2004, 43, 989-1004.	0.4	1
104	Electrospinning of drug-loaded polymer systems: preparation, characterization and drug release. , 2010, , .		1
105	Influence of water on the physical aging of poly(ethylene terephtalate). Macromolecular Symposia, 1999, 138, 139-147.	0.4	0
106	The Role of thetrans-Planar Mesophase in the Polymorphic Behavior of Syndiotactic Polypropylene. Macromolecular Symposia, 2001, 169, 125-136.	0.4	0
107	Use of an Alternative Colorant for Polyethylene Fuel Tanks Recycling. Progress in Rubber, Plastics and Recycling Technology, 2002, 18, 259-268.	0.8	0
108	Design of electrospinning mesh devices. , 2012, , .		0

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109	Temperature effects on the electrical properties of multiphase polymer composites. , 2014, , .		0