Annamaria Celli

List of Publications by Year
in descending order

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108	5,057	159525 30	95218 68
papers	citations	h-index	g-index

112	112	112	6764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface modification of inorganic nanoparticles for development of organicâ€“inorganic nanocompositesâ€”A review. Progress in Polymer Science, 2013, 38, 1232-1261.	11.8	1,760
2	Nanofibrillated cellulose: surface modification and potential applications. Colloid and Polymer Science, 2014, 292, 5-31.	1.0	363
3	Surface modification of plant fibers using environment friendly methods for their application in polymer composites, textile industry and antimicrobial activities: A review. Journal of Environmental Chemical Engineering, 2013, 1, 97-112.	3.3	225
4	A research challenge vision regarding management of agricultural waste in a circular bio-based economy. Critical Reviews in Environmental Science and Technology, 2018, 48, 614-654.	6.6	189
5	Thermal properties and physical ageing of poly (l-lactic acid). Polymer, 1992, 33, 2699-2703.	1.8	166
6	Fully biobased poly(propylene 2,5-furandicarboxylate) for packaging applications: excellent barrier properties as a function of crystallinity. Green Chemistry, 2015, 17, 4162-4166.	4.6	153
7	Poly(butylene succinate) reinforced with different lignocellulosic fibers. Industrial Crops and Products, 2013, 45, 160-169.	2.5	98
8	From winery waste to bioactive compounds and new polymeric biocomposites: A contribution to the circular economy concept. Journal of Advanced Research, 2020, 24, 1-11.	4.4	76
9	Fractal analysis of cracks in aluminaâ€“zirconia composites. Journal of the European Ceramic Society, 2003, 23, 469-479.	2.8	65
10	Sustainable polyesters for powder coating applications from recycled PET, isosorbide and succinic acid. Green Chemistry, 2014, 16, 1807-1815.	4.6	59
11	Evaluation of the retting process as a pre-treatment of vegetable fibers for the preparation of high-performance polymer biocomposites. Industrial Crops and Products, 2016, 81, 56-65.	2.5	55
12	State-of-the-Art Production Chains for Peas, Beans and Chickpeasâ€”Valorization of Agro-Industrial Residues and Applications of Derived Extracts. Molecules, 2020, 25, 1383.	1.7	55
13	Synthesis of castor oil-derived polyesters with antimicrobial activity. European Polymer Journal, 2014, 56, 174-184.	2.6	53
14	Influence of Molecular Structure and Stereochemistry of the 1,4â€Cyclohexylene Ring on Thermal and Mechanical Behavior of Poly(butylene 1,4â€cyclohexanedicarboxylate). Macromolecular Chemistry and Physics, 2008, 209, 1333-1344.	1.1	52
15	End of Life of Biodegradable Plastics: Composting versus Re/Upcycling. ChemSusChem, 2021, 14, 4167-4175.	3.6	49
16	Influence of the Activity of Transesterification Catalysts on the Phase Behavior of PC-PET Blends. Macromolecular Chemistry and Physics, 2002, 203, 695-704.	1.1	47
17	Advances in the synthesis of bio-based aromatic polyesters: novel copolymers derived from vanillic acid and Îµ-caprolactone. Polymer Chemistry, 2016, 7, 5396-5406.	1.9	46
18	Insights into the Synthesis of Poly(ethylene 2,5-Furandicarboxylate) from 2,5-Furandicarboxylic Acid: Steps toward Environmental and Food Safety Excellence in Packaging Applications. Industrial & Engineering Chemistry Research, 2019, 58, 8955-8962.	1.8	45

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19	Biocomposites based on poly(butylene succinate) and curaua: Mechanical and morphological properties. Polymer Testing, 2015, 45, 168-173.	2.3	44
20	Poly(1,4â€cyclohexylenedimethylene 1,4â€cyclohexanedicarboxylate): Influence of stereochemistry of 1,4â€cyclohexylene units on the thermal properties. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 619-630.	2.4	43
21	Laccase-assisted surface functionalization of lignocellulosics. Journal of Molecular Catalysis B: Enzymatic, 2014, 102, 48-58.	1.8	43
22	Resorcinol: A potentially bio-based building block for the preparation of sustainable polyesters. European Polymer Journal, 2015, 73, 38-49.	2.6	38
23	Multicomponent reinforcing system for poly(butylene succinate): Composites containing poly(l-lactide) electrospun mats loaded with graphene. Polymer Testing, 2016, 50, 283-291.	2.3	35
24	Current Advances in the Sustainable Conversion of 5â€Hydroxymethylfurfural into 2,5â€Furandicarboxylic Acid. ChemSusChem, 2022, 15, .	3.6	35
25	Retting Process as a Pretreatment of Natural Fibers for the Development of Polymer Composites. Springer Series on Polymer and Composite Materials, 2018, , 97-135.	0.5	34
26	Effects of annealing on crystallinity and phase behaviour of PET/PC block copolymers. European Polymer Journal, 2003, 39, 1081-1089.	2.6	33
27	About the end life of novel aliphatic and aliphatic-aromatic (co)polyesters after UV-weathering: Structure/degradability relationships. Polymer Degradation and Stability, 2013, 98, 1321-1328.	2.7	32
28	Biobased Vanillic Acid and Ricinoleic Acid: Building Blocks for Fully Renewable Copolyesters. Journal of Renewable Materials, 2018, 6, 126-135.	1.1	32
29	Polymorphism and Multiple Melting Behavior of Bio-Based Poly(propylene 2,5-furandicarboxylate). Biomacromolecules, 2020, 21, 2622-2634.	2.6	32
30	Enzymatic Degradation of the Most Common Aliphatic Bio-Polyesters and Evaluation of the Mechanisms Involved: An Extended Study. Polymers, 2022, 14, 1850.	2.0	32
31	Effect of 1,4â€cyclohexylene units on thermal properties of poly(1,4â€cyclohexylenedimethylene adipate) and similar aliphatic polyesters. Polymer International, 2013, 62, 1210-1217.	1.6	30
32	A new route of valorization of rice endosperm by-product: Production of polymeric biocomposites. Composites Part B: Engineering, 2018, 139, 195-202.	5.9	29
33	Sulfur containing polymers.. European Polymer Journal, 2002, 38, 1281-1288.	2.6	28
34	Ecoâ€friendly Poly(butylene 1,4â€cyclohexanedicarboxylate): Relationships Between Stereochemistry and Crystallization Behavior. Macromolecular Chemistry and Physics, 2011, 212, 1524-1534.	1.1	27
35	Poly(butylene succinate) bionanocomposites: a novel bio-organo-modified layered double hydroxide for superior mechanical properties. RSC Advances, 2016, 6, 4780-4791.	1.7	27
36	Poly(1,4-cyclohexylenedimethylene-1, 4-cyclohexanedicarboxylate): analysis of parameters affecting polymerization and cis-trans isomerization. Polymer International, 2011, 60, 1607-1613.	1.6	26

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37	A Sustainable Route to a Terephthalic Acid Precursor. ChemSusChem, 2016, 9, 942-945.	3.6	26
38	Relationships between the molecular architecture, crystallization capacity, and miscibility in poly(butylene terephthalate)/polycarbonate blends: A comparison with poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Td (tere 2821-2832.	2.4	25
39	Poly(butylene succinate)/layered double hydroxide bionanocomposites: Relationships between chemical structure of LDH anion, delamination strategy, and final properties. Journal of Applied Polymer Science, 2013, 130, 1931-1940.	1.3	25
40	Novel copolyesters based on poly(alkylene dicarboxylate)s: 2. Thermal behavior and biodegradation of fully aliphatic random copolymers containing 1,4-cyclohexylene rings. European Polymer Journal, 2009, 45, 2402-2412.	2.6	24
41	Aliphatic/aromatic copolyesters containing biobased ï‰-hydroxyfatty acids: Synthesis and structureâ€“property relationships. Polymer, 2013, 54, 3774-3783.	1.8	23
42	Environmentally Friendly Copolyesters Containing 1,4â€€Cyclohexane Dicarboxylate Units, 1â€€Relationships Between Chemical Structure and Thermal Properties. Macromolecular Chemistry and Physics, 2010, 211, 1559-1571.	1.1	22
43	X-ray diffraction and rheology cross-study of polymer chain penetrating surfactant tethered layered double hydroxide resulting into intermixed structure with polypropylene, poly(butylene)succinate and poly(dimethyl)siloxane. Applied Clay Science, 2014, 100, 102-111.	2.6	22
44	Thermal properties of poly(alkylene dicarboxylate)s derived from 1,12-dodecanedioic acid and even aliphatic diols. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 1053-1067.	2.4	21
45	Novel copolyesters based on poly(alkylene dicarboxylate)s: 1. Thermal behavior and biodegradation of aliphaticâ€“aromatic random copolymers. European Polymer Journal, 2008, 44, 3650-3661.	2.6	21
46	Dual chain extension effect and antibacterial properties of biomolecules interleaved within LDH dispersed into PBS by in situ polymerization. Dalton Transactions, 2018, 47, 3155-3165.	1.6	21
47	Organo-modified LDH fillers endowing multi-functionality to bio-based poly(butylene succinate): An extended study from the laboratory to possible market. Applied Clay Science, 2020, 188, 105502.	2.6	21
48	Valorization of wheat bran agro-industrial byproduct as an upgrading filler for mycelium-based composite materials. Industrial Crops and Products, 2021, 170, 113742.	2.5	21
49	Enzymatically treated curaua fibers in poly(butylene succinate)-based biocomposites. Journal of Environmental Chemical Engineering, 2018, 6, 4452-4458.	3.3	20
50	Monomers, Materials and Energy from Coffee By-Products: A Review. Sustainability, 2021, 13, 6921.	1.6	20
51	Polymer crystallization: Fold surface free energy determination by different thermal analysis techniques. Thermochimica Acta, 1995, 269-270, 191-199.	1.2	18
52	Powder coatings for indoor applications from renewable resources and recycled polymers. Journal of Coatings Technology Research, 2015, 12, 555-562.	1.2	18
53	Eco-Conversion of Two Winery Lignocellulosic Wastes into Fillers for Biocomposites: Vine Shoots and Wine Pomaces. Polymers, 2020, 12, 1530.	2.0	18
54	An investigation on the structure and thermal behaviour of syndiotactic poly(propylene). Macromolecular Rapid Communications, 1994, 15, 225-232.	2.0	17

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55	Aliphatic poly(alkylene dithiocarbonate)s: Thermal properties and structuralÂcharacteristics of poly(hexamethylene dithiocarbonate). Polymer, 2007, 48, 174-182.	1.8	17
56	Temperature-induced polymorphism in bio-based poly(propylene 2,5-furandicarboxylate). Thermochimica Acta, 2019, 677, 186-193.	1.2	17
57	Preparation and characterisation of novel random copoly(arylene etherâ€“thioether ketone)s containing 2,2-bis(4-phenylene)propane units. European Polymer Journal, 2007, 43, 2453-2461.	2.6	16
58	Preparation of new biobased polyesters containing glycerol and their photodurability for outdoor applications. Green Chemistry, 2012, 14, 182-187.	4.6	16
59	Bio-Based PA11/Graphene Nanocomposites Prepared by In Situ Polymerization. Journal of Nanoscience and Nanotechnology, 2018, 18, 1169-1175.	0.9	16
60	Recent advances in the production of biomedical systems based on polyhydroxyalkanoates and exopolysaccharides. International Journal of Biological Macromolecules, 2021, 183, 1514-1539.	3.6	16
61	The aliphatic counterpart of PET, PPT and PBT aromatic polyesters: effect of the molecular structure on thermo-mechanical properties. AIMS Molecular Science, 2016, 3, 32-51.	0.3	16
62	About Durability of Biodegradable Polymers: Structure/Degradability Relationships. Macromolecular Symposia, 2010, 296, 378-387.	0.4	15
63	Transamidations in melt-mixed MXD6 and PA6I-6T polyamides: 1. Determination of the degree of randomness and block length by 1H-NMR analysis. European Polymer Journal, 2012, 48, 1923-1931.	2.6	15
64	Chain extender effect of 3-(4-hydroxyphenyl)propionic acid/layered double hydroxide in PBS bionanocomposites. European Polymer Journal, 2017, 94, 20-32.	2.6	15
65	Novel random copoly(arylene ether-thioether ketone)s based on 2,2-bis(4-mercaptophenyl)propane and 4,4â€²-dihydroxybiphenyl: Synthesis and properties. European Polymer Journal, 2006, 42, 2562-2572.	2.6	14
66	Synthesis of novel fullerene-functionalized polysulfones for optical limiting applications. Reactive and Functional Polymers, 2011, 71, 641-647.	2.0	14
67	Sulfur-containing polymers. Synthesis and properties of novel poly(arylene thioether)s based on 2,2-bis(4-mercaptophenyl)propane. European Polymer Journal, 2005, 41, 1812-1820.	2.6	13
68	Strategy To Modify the Crystallization Behavior of EVOH32 through Interactions with Low-Molecular-Weight Molecules. Industrial & Engineering Chemistry Research, 2016, 55, 3517-3524.	1.8	13
69	Integrated Efforts for the Valorization of Sweet Potato By-Products within a Circular Economy Concept: Biocomposites for Packaging Applications Close the Loop. Polymers, 2021, 13, 1048.	2.0	13
70	Relationship between crystallization regimes and melting phenomena in isotactic polypropylene. European Polymer Journal, 1993, 29, 1037-1040.	2.6	12
71	Nanohybrid Materials by Electrospinning. Advances in Polymer Science, 2014, , 87-142.	0.4	12
72	A Novel Approach for the Synthesis of Thermoâ€Responsive Coâ€Polyesters Incorporating Reversible Dielsâ€“Alder Adducts. Macromolecular Chemistry and Physics, 2019, 220, 1900247.	1.1	12

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73	A new valorization route for Olive Mill wastewater: Improvement of durability of PP and PBS composites through multifunctional hybrid systems. Journal of Environmental Chemical Engineering, 2019, 7, 103026.	3.3	12
74	Photodegradation of TiO2 composites based on polyesters. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 275-283.	2.0	11
75	Strategy to improve PA6 performances by melt compounding. Polymer Testing, 2018, 67, 84-91.	2.3	11
76	Modification of PET by reactive blending with sulfonated esters, 1. Synthesis and characterization of PET-ionomers. Macromolecular Symposia, 2001, 176, 211-222.	0.4	10
77	Use of ionic liquids based on phosphonium salts for preparing biocomposites by in situ polymerization. Journal of Applied Polymer Science, 2015, 132, .	1.3	10
78	Olive Mill Wastewater Valorization in Multifunctional Biopolymer Composites for Antibacterial Packaging Application. International Journal of Molecular Sciences, 2019, 20, 2376.	1.8	10
79	Outstanding chain-extension effect and high UV resistance of polybutylene succinate containing amino-acid-modified layered double hydroxides. Beilstein Journal of Nanotechnology, 2019, 10, 684-695.	1.5	10
80	Thia-Michael Reaction for a Thermostable Itaconic-Based Monomer and the Synthesis of Functionalized Biopolyesters. ACS Sustainable Chemistry and Engineering, 2019, 7, 5553-5559.	3.2	10
81	Upgrading grape pomace contained ethanol into hexanoic acid, fuel additives and a sticky polyhydroxyalkanoate: an effective alternative to ethanol distillation. Green Chemistry, 2022, 24, 2882-2892.	4.6	10
82	Quantitative Evaluation by Fractal Analysis of Indentation Crack Paths in Si3N4â€“SiCw Composites. Journal of the European Ceramic Society, 1999, 19, 441-449.	2.8	9
83	Chemical recycling of post-consumer compact discs towards novel polymers for powder coating applications. RSC Advances, 2016, 6, 31462-31469.	1.7	9
84	Composites for Â« white and green Â» solutions: Coupling UV resistance and chain extension effect from poly(butylene succinate) and layered double hydroxides composites. Journal of Solid State Chemistry, 2018, 268, 9-15.	1.4	9
85	The effect of aliphatic chain length on thermal properties of poly(alkylene dicarboxylate)s. E-Polymers, 2007, 7, .	1.3	8
86	Electrospun Fibers Containing Bioâ€Based Ricinoleic Acid: Effect of Amount and Distribution of Ricinoleic Acid Unit on Antibacterial Properties. Macromolecular Materials and Engineering, 2015, 300, 1085-1095.	1.7	8
87	Block and random copolyamides of poly(mâ€xylylene adipamide) and poly(hexamethylene) Tj ETQq1 1 0.784314 rgBT /Overlock molecular structure and phase behavior. Polymer Engineering and Science, 2015, 55, 1475-1484.	1.5	8
88	Sharp and strong â€œBrill transitionâ€•of poly(hexamethylene dithiocarbonate). Polymer, 2017, 113, 267-273.	1.8	8
89	Effect of telechelic ionic groups on the dispersion of organically modified clays in bisphenol A polycarbonate nanocomposites by in-situ polymerization using activated carbonates. EXPRESS Polymer Letters, 2017, 11, 396-405.	1.1	8
90	Water Vapor Sorption and Diffusivity in Bio-Based Poly(ethylene vanillate)â€”PEV. Polymers, 2021, 13, 524.	2.0	8

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91	Bio-based semi-crystalline PEF: Temperature dependence of the constrained amorphous interphase and amorphous chain mobility in relation to crystallization. Polymer, 2022, 247, 124771.	1.8	8
92	Primary Crystal Nucleation and Growth Regime Transition in Isotactic Polypropylene. Journal of Macromolecular Science - Physics, 2003, 42, 387-401.	0.4	7
93	Crystallization of Poly(ethylene terephthalate) in Poly(ethylene terephthalate)/Bisphenol A Polycarbonate Block Copolymers: Influence of Block Length and Role of the Rubbery Amorphous Component. Macromolecular Chemistry and Physics, 2004, 205, 2486-2495.	1.1	7
94	Synergistic effect of dipentaerythritol and montmorillonite in EVOHâ€based nanocomposites. Journal of Applied Polymer Science, 2015, 132, .	1.3	7
95	Cascade strategies for the full valorisation of Garganega white grape pomace towards bioactive extracts and bio-based materials. PLoS ONE, 2020, 15, e0239629.	1.1	7
96	Modification of PET by Reactive Blending with Sulfonated Esters. II. Isothermal Crystallization Kinetics of PET-Ionomers. Journal of Macromolecular Science - Physics, 2003, 42, 989-1005.	0.4	6
97	Ageing of PCCD aliphatic polyesters: Effect of stereochemistry and ionic chain terminals. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 292, 42-48.	2.0	6
98	One-pot melt synthesis of resorcinol based polyarylates for UV-stable coatings. Progress in Organic Coatings, 2014, 77, 1701-1708.	1.9	6
99	A new approach to the synthesis of monomers and polymers incorporating furan/maleimide Diels-Alder adducts. AIP Conference Proceedings, 2016, , .	0.3	4
100	Elastomeric/antibacterial properties in novel random Ricinus communis based-copolyesters. Polymer Testing, 2020, 90, 106719.	2.3	4
101	Improved dispersion of multi-wall carbon nanotubes in poly(butylene terephthalate) using benzimidazolium surfactants. E-Polymers, 2009, 9, .	1.3	3
102	Chain extender effect of 3-(4-hydroxyphenyl)propionic acid/layered double hydroxide in biopolyesters containing the succinate moiety. New Journal of Chemistry, 2020, 44, 10127-10136.	1.4	3
103	Bio-Based Furan-Polyesters/Graphene Nanocomposites Prepared by In Situ Polymerization. Polymers, 2021, 13, 1377.	2.0	3
104	MXD6 in film manufacturing: State of the art and recent advances in the synthesis and characterization of new copolyamides. Journal of Plastic Film and Sheeting, 2020, 36, 16-37.	1.3	2
105	Valorization of Ferulic Acid from Agro-Industrial by-Products for Application in Agriculture. Polymers, 2022, 14, 2874.	2.0	2
106	Modification of poly(butylene terephthalate) by reaction with 1,4-butane sultone; synthesis and thermal characterization of new telechelic PBT ionomers. E-Polymers, 2008, 8, .	1.3	1
107	New polymers from renewable resources: synthesis, characterization, and photodurability of aliphatic polyesters containing glycerol. Journal of Biotechnology, 2010, 150, 206-206.	1.9	1
108	Solidâ€state polymerization process for the preparation of poly(cyclohexaneâ€1,4â€dimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Engineering and Science, 2018, 58, 1981-1986.	1.5	1