Maria Laura Di Lorenzo

List of Publications by Year
in descending order

110 papers	6,144 citations	81900 39 h-index	69250 77 g-index
114 all docs	114 docs citations	114 times ranked	4424 citing authors

#	Article	IF	Citations
1	Heterogeneous Bubble Nucleation by Homogeneous Crystal Nuclei in Poly(<scp>l</scp>â€Lactic Acid) Foaming. Macromolecular Chemistry and Physics, 2022, 223, .	2.2	4
2	Optical, mechanical, and antimicrobial properties of bioâ€based composites of poly(Lâ€lactic acid) and Dâ€limonene/Î²â€cyclodextrin inclusion complex. Journal of Applied Polymer Science, 2022, 139, .	2.6	3
3	Poly(<scp>l</scp>-Lactic Acid)/Poly(Butylene Succinate) Biobased Biodegradable Blends. Polymer Reviews, 2021, 61, 457-492.	10.9	25
4	Temperature dependence of the rigid amorphous fraction of poly(butylene succinate). RSC Advances, 2021, 11, 25731-25737.	3.6	9
5	Thermal and Thermo-Mechanical Properties of Poly(L-lactic Acid) Biocomposites Containing Î²-Cyclodextrin/d-Limonene Inclusion Complex. Materials, 2021, 14, 2569.	2.9	12
6	Enhancement of crystallization kinetics of poly(l-lactic acid) by grafting with optically pure branches. Polymer, 2021, 227, 123852.	3.8	7
7	Glass transition and aging of the rigid amorphous fraction in polymorphic poly(butene-1). Polymer, 2021, 226, 123830.	3.8	5
8	Binary Green Blends of Poly(lactic acid) with Poly(butylene adipate-co-butylene terephthalate) and Poly(butylene succinate-co-butylene adipate) and Their Nanocomposites. Polymers, 2021, 13, 2489.	4.5	33
9	Physical Aging and Glass Transition of the Rigid Amorphous Fraction in Poly(l-lactic acid). Macromolecules, 2020, 53, 8741-8750.	4.8	34
10	Poly(l-Lactic Acid)/Pine Wood Bio-Based Composites. Materials, 2020, 13, 3776.	2.9	12
11	Polyamide 11/Poly(butylene succinate) Bio-Based Polymer Blends. Materials, 2019, 12, 2833.	2.9	20
12	N,N-Diethyl-3-methylbenzamide (DEET): A mosquito repellent as functional plasticizer for poly(l-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	14
13	Crystallization of Poly[(R)-3-hydroxybutyrate]. Advances in Polymer Science, 2019, , 119-142.	0.8	8
14	Influence of Î±â€²â€²Î±â€crystal polymorphism on properties of poly(<scp>l</scp>â€lactic acid). Polymer International, 2019, 68, 320-334.	3.1	86
15	Biodegradable electrospun PLLA fibers containing the mosquito-repellent DEET. European Polymer Journal, 2019, 113, 377-384.	5.4	24
16	Accelerated crystallization of high molar mass poly(l / d -lactic acid) by blending with low molar mass poly(l -lactic acid). European Polymer Journal, 2018, 100, 172-177.	5.4	8
17	Optical Microscopy to Study Crystal Nucleation in Polymers Using a Fast Scanning Chip Calorimeter for Precise Control of the Nucleation Pathway. Macromolecular Chemistry and Physics, 2018, 219, 1700479.	2.2	45
18	Biodegradable Poly(Butylene Succinate)-Based Composites for Food Packaging. Springer Water, 2018, , 199-204.	0.3	0

#	Article	IF	Citations
19	Advances in polymer crystallization. Polymer Crystallization, 2018, 1, e10026.	0.8	2
20	Crystallization-induced formation of rigid amorphous fraction. Polymer Crystallization, 2018, 1, e10023.	0.8	30
21	Crystallization kinetics of blends of two poly(lactic acid) grades with diverse stereoregularity and molar mass. AIP Conference Proceedings, 2018, , .	0.4	0
22	Electrospun fibers of poly(l-lactic acid) containing DEET. AIP Conference Proceedings, 2018, , .	0.4	1
23	Analysis of Polymer Crystallization by Calorimetry. Handbook of Thermal Analysis and Calorimetry, 2018, 6, 253-299.	1.6	4
24	Effect of molar mass on the Î±â€²/Î±-transition in poly (l -lactic acid). Polymer, 2017, 114, 144-148.	3.8	28
25	Effect of molar mass on enthalpy relaxation and crystal nucleation of poly (l-lactic acid). European Polymer Journal, 2017, 96, 361-369.	5.4	32
26	Low-temperature crystallization of poly(butylene succinate). European Polymer Journal, 2017, 94, 384-391.	5.4	36
27	Kinetics of Nucleation and Growth of Crystals of Poly(l-lactic acid). Advances in Polymer Science, 2017, , 235-272.	0.8	46
28	Stability and Reorganization of Î±â€²â€Crystals in Random <scp>l</scp>/<scp>d</scp>â€Lactide Copolymers. Macromolecular Chemistry and Physics, 2016, 217, 1534-1538.	2.2	34
29	Polypropyleneâ€based composites containing sorbitolâ€based nucleating agent and siloxaneâ€silsesquioxane resin. Journal of Applied Polymer Science, 2016, 133, .	2.6	17
30	Melting of Î±â€²- and Î±-crystals of poly(lactic acid). AIP Conference Proceedings, 2016, , .	0.4	4
31	Down shifting in poly(vinyl alcohol) gels doped with terbium complex. Journal of Colloid and Interface Science, 2016, 477, 34-39.	9.4	11
32	Poly(butylene succinate)-based composites containing Î²-cyclodextrin/d-limonene inclusion complex. European Polymer Journal, 2016, 79, 82-96.	5.4	59
33	Isotactic polypropylene modified with sorbitol-based derivative and siloxane-silsesquioxane resin. European Polymer Journal, 2016, 85, 62-71.	5.4	28
34	Rigid amorphous fraction and multiple melting behavior in poly(butylene terephthalate) and isotactic polystyrene. Journal of Thermal Analysis and Calorimetry, 2016, 126, 521-530.	3.6	23
35	Crystal nucleation in random l/d-lactide copolymers. European Polymer Journal, 2016, 75, 474-485.	5.4	68
36	Influence of modified atmosphere packaging on postharvest quality of cherry tomatoes held at 20 Â°C. Postharvest Biology and Technology, 2016, 115, 103-112.	6.0	58

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37	Interfacial enhancement of polypropylene composites modified with sorbitol derivatives and siloxane-silsesquioxane resin. AIP Conference Proceedings, 2015, , .	0.4	4
38	The irreversible tetragonal to trigonal transformation in random butene-1/ethylene copolymers. AIP Conference Proceedings, 2015, , .	0.4	0
39	Enthalpy of melting of Î±â€²- and Î±-crystals of poly(l-lactic acid). European Polymer Journal, 2015, 70, 215-220.	5.4	150
40	Influence of chain structure on crystal polymorphism of poly(lactic acid). Part 2. Effect of molecular mass on the crystal growth rate and semicrystalline morphology. Colloid and Polymer Science, 2015, 293, 2459-2467.	2.1	37
41	Peculiar crystallization kinetics of biodegradable poly(lactic acid)/poly(propylene carbonate) blends. Polymer Engineering and Science, 2015, 55, 2698-2705.	3.1	26
42	The irreversible Form II to Form I transformation in random butene-1/ethylene copolymers. European Polymer Journal, 2015, 67, 264-273.	5.4	40
43	Phase Diagrams of Smart Copolymers Poly(N-isopropylacrylamide) and Poly(sodium acrylate). Scientific World Journal, The, 2014, 2014, 1-8.	2.1	2
44	Random butene-1/ethylene copolymers: Influence of composition on the three-phase structure. , 2014, , .		0
45	Influence of chain structure on crystal polymorphism of poly(lactic acid). Part 1: effect of optical purity of the monomer. Colloid and Polymer Science, 2014, 292, 399-409.	2.1	66
46	Influence of crosslinker and ionic comonomer concentration on glass transition and demixing/mixing transition of copolymers poly(N-isopropylacrylamide) and poly(sodium acrylate) hydrogels. Colloid and Polymer Science, 2014, 292, 485-492.	2.1	26
47	Melting of Conformationally Disordered Crystals (Î±â€²â€Phase) of Poly(<scp>l</scp>â€lactic acid). Macromolecular Chemistry and Physics, 2014, 215, 1134-1139.	2.2	106
48	Tailoring the rigid amorphous fraction of isotactic polybutene-1 by ethylene chain defects. Polymer, 2014, 55, 6132-6139.	3.8	27
49	Rigid amorphous fraction and melting behavior of poly(ethylene terephthalate). Colloid and Polymer Science, 2014, 292, 1365-1374.	2.1	27
50	Spherulite growth rate and fold surface free energy of the form II mesophase in isotactic polybutene-1 and random butene-1/ethylene copolymers. Colloid and Polymer Science, 2014, 292, 1479-1485.	2.1	19
51	Temperature dependence of the rigid amorphous fraction in poly(ethylene terephthalate). European Polymer Journal, 2014, 58, 60-68.	5.4	54
52	Conformationally disordered crystals and their influence on material properties: The cases of isotactic polypropylene, isotactic poly(1-butene), and poly(l-lactic acid). Journal of Molecular Structure, 2014, 1078, 114-132.	3.6	77
53	ICTAC Kinetics Committee recommendations for collecting experimental thermal analysis data for kinetic computations. Thermochimica Acta, 2014, 590, 1-23.	2.7	929
54	Isothermal and nonâ€isothermal crystallization of poly(<scp>L</scp>â€lactic acid)/poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	24

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55	Crystal Nucleation in Glassy Poly(<scp>l</scp>-lactic acid). Macromolecules, 2013, 46, 6048-6056.	4.8	112
56	Effect of Aging the Glass of Isotactic Polybutene-1 on Form II Nucleation and Cold Crystallization. Journal of Physical Chemistry B, 2013, 117, 15196-15203.	2.6	78
57	Kinetics of crystal nucleation of poly(L-lactic acid). Polymer, 2013, 54, 6882-6885.	3.8	77
58	The Role of the Crystallization Temperature on the Nanophase Structure Evolution of Poly[(R)-3-hydroxybutyrate]. Journal of Physical Chemistry B, 2013, 117, 12303-12311.	2.6	49
59	Miscibility and properties of poly(l-lactic acid)/poly(butylene terephthalate) blends. European Polymer Journal, 2013, 49, 3309-3317.	5.4	40
60	Effect of thermal history on the evolution of crystal and amorphous fractions of poly[(R)-3-hydroxybutyrate] upon storage at ambient temperature. European Polymer Journal, 2013, 49, 510-517.	5.4	38
61	Thermoreversible luminescent organogels doped with Eu(TTA)3phen complex. Journal of Colloid and Interface Science, 2013, 398, 95-102.	9.4	9
62	Evolution of crystal and amorphous fractions of poly[(R)-3-hydroxybutyrate] upon storage. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1439-1446.	3.6	26
63	Competition between crystallization and vitrification of the rigid amorphous fraction in poly(3-hydroxybutyrate). , 2012, , .		0
64	Study of rheological and mechanical properties of ternary blends of iPP/LDPE/EPDM. Journal of Polymer Engineering, 2012, 32, .	1.4	1
65	The Role of the Rigid Amorphous Fraction on Cold Crystallization of Poly(3-hydroxybutyrate). Macromolecules, 2012, 45, 5684-5691.	4.8	103
66	Nonlinear determination of the equilibrium melting temperature from initial nonreorganized crystals of poly(3â€hydroxybutyrate). Polymer Engineering and Science, 2012, 52, 2383-2390.	3.1	8
67	Isothermal and nonisothermal crystallization of HDPE composites containing multilayer carton scraps as filler. Journal of Applied Polymer Science, 2012, 125, 3880-3887.	2.6	11
68	Influence of crystal polymorphism on mechanical and barrier properties of poly(l-lactic acid). European Polymer Journal, 2011, 47, 1073-1080.	5.4	241
69	Melting temperature evolution of non-reorganized crystals. Poly(3-hydroxybutyrate). Thermochimica Acta, 2011, 512, 59-66.	2.7	34
70	Crystal polymorphism of poly(l-lactic acid) and its influence on thermal properties. Thermochimica Acta, 2011, 522, 110-117.	2.7	103
71	Crystallization kinetics of cisâ€1,4â€polybutadiene. Journal of Applied Polymer Science, 2010, 116, 1408-1413.	2.6	6
72	Coupling between Crystal Melting and Rigid Amorphous Fraction Mobilization in Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	4.8	56

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73	Mesophases in polyethylene, polypropylene, and poly(1-butene). Polymer, 2010, 51, 4639-4662.	3.8	237
74	Transient nucleation in isothermal crystallization of poly(3- hydroxybutyrate). E-Polymers, 2009, 9, .	3.0	3
75	Optimization of melting conditions for the analysis of crystallization kinetics of poly(3-hydroxybutyrate). E-Polymers, 2009, 9, .	3.0	9
76	The melting process and the rigid amorphous fraction of cis-1,4-polybutadiene. Polymer, 2009, 50, 578-584.	3.8	43
77	Influence of Crystal Polymorphism on the Three-Phase Structure and on the Thermal Properties of Isotactic Poly(1-butene). Macromolecules, 2009, 42, 9312-9320.	4.8	55
78	Vitrification and devitrification of the rigid amorphous fraction in poly(ethylene terephthalate). E-Polymers, 2009, 9, .	3.0	5
79	The three-phase structure of isotactic poly(1-butene). Polymer, 2008, 49, 1323-1331.	3.8	81
80	Crystalline, mobile amorphous and rigid amorphous fractions in isotactic polystyrene. European Polymer Journal, 2008, 44, 2659-2667.	5.4	51
81	The Low-Temperature Endotherm in Poly(ethylene terephthalate):â€‰ Partial Melting and Rigid Amorphous Fraction Mobilization. Journal of Physical Chemistry B, 2008, 112, 4233-4241.	2.6	59
82	OPTIMIZATION OF MELTING CONDITIONS OF POLY(3-HYDROXYBUTYRATE). AIP Conference Proceedings, 2008, , .	0.4	1
83	Enthalpy-based determination of crystalline, mobile amorphous and rigid amorphous fractions in semicrystalline polymers. Thermochimica Acta, 2007, 462, 15-24.	2.7	53
84	Poly(butylene terephthalate)/poly(Îµ-caprolactone) blends: Influence of PCL molecular mass on PBT melting and crystallization behavior. European Polymer Journal, 2007, 43, 4726-4738.	5.4	30
85	Poly(butylene terephthalate)/poly(É›-caprolactone) blends: Miscibility and thermal and mechanical properties. Polymer Engineering and Science, 2007, 47, 323-329.	3.1	34
86	Selfâ€decelerated crystallization in poly(butylene terephthalate)/poly(Îµâ€caprolactone) blends. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 3148-3155.	2.1	6
87	iPP Based Nanocomposites Filled with Calcium Carbonate Nanoparticles: Structure/Properties Relationships. Macromolecular Symposia, 2006, 234, 156-162.	0.7	35
88	Melting and crystallization of poly(butylene terephthalate) by temperature-modulated and superfast calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 1364-1377.	2.1	123
89	Nucleation activity of nanosized CaCO3 on crystallization of isotactic polypropylene, in dependence on crystal modification, particle shape, and coating. European Polymer Journal, 2006, 42, 1548-1557.	5.4	101
90	The Crystallization and Melting Processes of Poly(L-lactic acid). Macromolecular Symposia, 2006, 234, 176-183.	0.7	84

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91	Irregularly shaped DSC exotherms in the analysis of polymer crystallization. Polymer Bulletin, 2006, 57, 713-721.	3.3	30
92	Calorimetric analysis of the multiple melting behavior of poly(L-lactic acid). Journal of Applied Polymer Science, 2006, 100, 3145-3151.	2.6	161
93	Crystallization behavior of poly(l-lactic acid). European Polymer Journal, 2005, 41, 569-575.	5.4	263
94	Morphological analysis of poly(butylene terephthalate) spherulites during fusion. Polymer Bulletin, 2004, 53, 53-62.	3.3	14
95	Melting process of poly(butylene terephthalate) analyzed by temperature-modulated differential scanning calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2191-2201.	2.1	36
96	Structural Reorganization in Poly(butylene terephthalate) during Fusion. Macromolecules, 2004, 37, 9027-9033.	4.8	34
97	Measurement of spherulite growth rates using tailored temperature programs. Thermochimica Acta, 2003, 396, 67-73.	2.7	10
98	Melting of polymers by non-isothermal, temperature-modulated calorimetry: analysis of various irreversible latent heat contributions to the reversing heat capacity. Thermochimica Acta, 2003, 405, 255-268.	2.7	30
99	Spherulite growth rates in binary polymer blends. Progress in Polymer Science, 2003, 28, 663-689.	24.7	160
100	Crystallization of poly(butylene terephthalate). Polymer Engineering and Science, 2003, 43, 1889-1894.	3.1	49
101	Reversible melting in nanophase-separated poly(oligoamide-alt-oligoether)s and its dependence on sequence length, crystal perfection, and molecular mobility. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2969-2981.	2.1	22
102	Reversible and irreversible heat capacity of poly[carbonyl(ethylene-co-propylene)] by temperature-modulated calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1565-1577.	2.1	25
103	Calorimetry of nanophase-separated poly(oligoamide-alt-oligoether)s. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 1594-1604.	2.1	40
104	Nonisothermal crystallization of isotactic polypropylene blended with poly(?-pinene). I. Bulk crystallization. Journal of Applied Polymer Science, 2001, 82, 358-367.	2.6	30
105	Blends of polypropylene with poly(vinyl butyral). Journal of Applied Polymer Science, 2001, 82, 2934-2946.	2.6	23
106	Determination of spherulite growth rates of poly(l-lactic acid) using combined isothermal and non-isothermal procedures. Polymer, 2001, 42, 9441-9446.	3.8	152
107	Nonisothermal Crystallization of Isotactic Polypropylene Blended with Poly(Î±-pinene). 2. Growth Rates. Macromolecules, 2000, 33, 3828-3832.	4.8	57
108	Crystallization of isotactic polypropylene/natural terpene resins blends. Polymer, 1999, 40, 5119-5128.	3.8	27

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109	Non-isothermal crystallization of polymers. Progress in Polymer Science, 1999, 24, 917-950.	24.7	500
110	Crystal Structure of Form III of Syndiotactic Poly(p-methylstyrene). Macromolecules, 1995, 28, 5507-5511.	4.8	26