Felice De Santis

List of Publications by Year
in descending order

57	1,513	304368	315357
papers	citations	22 h-index	38 g-index

57	57	57	1349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scanning Nanocalorimetry at High Cooling Rate of Isotactic Polypropylene. Macromolecules, 2006, 39, 2562-2567.	2.2	174
2	Isothermal Nanocalorimetry of Isotactic Polypropylene. Macromolecules, 2007, 40, 9026-9031.	2.2	150
3	Crystallization kinetics of virgin and processed poly(lactic acid). Polymer Degradation and Stability, 2010, 95, 1148-1159.	2.7	114
4	Effective de-icing skin using graphene-based flexible heater. Composites Part B: Engineering, 2019, 162, 600-610.	5.9	109
5	Nucleation and crystallization kinetics of poly(lactic acid). Thermochimica Acta, 2011, 522, 128-134.	1.2	103
6	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
7	Analysis of Shrinkage Development of a Semicrystalline Polymer during Injection Molding. Industrial & Engineering Chemistry Research, 2010, 49, 2469-2476.	1.8	51
8	Development of a rapid surface temperature variation system and application to micro-injection molding. Journal of Materials Processing Technology, 2016, 237, 1-11.	3.1	46
9	Melt compounding of poly (Lactic Acid) and talc: assessment of material behavior during processing and resulting crystallization. Journal of Polymer Research, 2015, 22, 1.	1.2	39
10	Modeling the interactions between light and crystallizing polymer during fast cooling. Applied Physics A: Materials Science and Processing, 2004, 78, 895-901.	1.1	38
11	Synthesis and characterization of P(MMA-AA) copolymers for targeted oral drug delivery. Polymer Bulletin, 2009, 62, 679-688.	1.7	35
12	Characterization of the Polycaprolactone Melt Crystallization: Complementary Optical Microscopy, DSC, and AFM Studies. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	34
13	Effect of shear flow on spherulitic growth and nucleation rates of polypropylene. Polymer, 2016, 90, 102-110.	1.8	33
14	Effect of molding conditions on crystallization kinetics and mechanical properties of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.5	33
15	Effect of mold opening on the properties of PLA samples obtained by foam injection molding. Polymer Engineering and Science, 2018, 58, 475-484.	1.5	32
16	Biodegradable antimicrobial films based on poly(lactic acid) matrices and active azo compounds. Journal of Applied Polymer Science, 2015, 132, .	1.3	29
17	The influence of dissolution conditions on the drug ADME phenomena. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 79, 382-391.	2.0	28
18	Nucleation density and growth rate of polypropylene measured by calorimetric experiments. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1481-1488.	2.0	28

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19	Analysis of gate freeze-off time in injection molding. Polymer Engineering and Science, 2004, 44, 1-17.	1.5	26
20	Fibrillar Morphology in Shear-Induced Crystallization of Polypropylene. Macromolecular Materials and Engineering, 2014, 299, 1465-1473.	1.7	26
21	PLA Melt Stabilization by High-Surface-Area Graphite and Carbon Black. Polymers, 2018, 10, 139.	2.0	23
22	Crystallization during fast cooling experiments, a novel apparatus for real time monitoring. Macromolecular Symposia, 2002, 185, 181-196.	0.4	22
23	Effects of water sorption on poly(lactic acid). Polymer, 2016, 99, 130-139.	1.8	22
24	Optical Properties of Polypropylene upon Recycling. Scientific World Journal, The, 2013, 2013, 1-7.	0.8	21
25	Heat transfer and crystallization kinetics during fast cooling of thin polymer films. Heat and Mass Transfer, 2007, 43, 1143-1150.	1.2	20
26	Improved experimental characterization of crystallization kinetics. European Polymer Journal, 2005, 41, 2297-2302.	2.6	17
27	Dynamic local temperature control in microâ€injection molding: Effects on poly(lactic acid) morphology. Polymer Engineering and Science, 2018, 58, 586-591.	1.5	17
28	A new method for on-line monitoring of non isothermal crystallization kinetics of polymers. Polymer Bulletin, 2002, 48, 207-212.	1.7	16
29	Analysis of flow induced crystallization through molecular stretch. Polymer, 2016, 105, 187-194.	1.8	15
30	Polymer Crystallization Under High Cooling Rate and Pressure: A Step Towards Polymer Processing Conditions. , 2007, , 329-344.		13
31	Modelling morphology evolution during solidification of IPP in processing conditions. AIP Conference Proceedings, 2014, , .	0.3	12
32	A spectroscopic approach to assess transport properties of water vapor in PLA. Polymer Testing, 2015, 44, 15-22.	2.3	12
33	The rheological and crystallization behavior of polyoxymethylene. Polymer Testing, 2017, 57, 203-208.	2.3	12
34	Antimicrobial azobenzene compounds and their potential use in biomaterials. AIP Conference Proceedings, 2016, , .	0.3	11
35	Optical In Situ Characterization of Isotactic Polypropylene Crystallization Using an LED Array in Avalanche-Photoreceiver Mode. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 123-127.	2.4	10
36	Morphology Evolution During Polymer Crystallization Simultaneous Calorimetric and Optical Measurements. Macromolecular Symposia, 2006, 234, 7-12.	0.4	9

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37	Mimicking the contractions of a human stomach and their effect on pharmaceuticals. Journal of Drug Delivery Science and Technology, 2017, 41, 454-461.	1.4	9
38	Spherulitic nucleation and growth rates in a sheared polypropylene melt. , 2014, , .		5
39	Physical changes of poly(lactic acid) induced by water sorption. AIP Conference Proceedings, 2015, , .	0.3	5
40	Modeling morphology evolution during injection molding of thermoplastic polymers. AIP Conference Proceedings, 2015, , .	0.3	5
41	Prediction of the maximum flow length of a thin injection molded part. Journal of Polymer Engineering, 2020, 40, 783-795.	0.6	5
42	As-molded shrinkage on industrial polypropylene injection molded parts: experiments and analysis. International Journal of Material Forming, 2008, 1, 719-722.	0.9	3
43	Iron Chelates: Production Processes and Reaction Evolution Analysis. Chemical Engineering Communications, 2016, 203, 861-869.	1.5	3
44	Innovative design and simulation study of a mould for rapid temperature control in micro-injection moulding. AIP Conference Proceedings, 2019, , .	0.3	3
45	Crystallization kinetics of a fluorinated copolymer of tetrafluoroethylene. European Polymer Journal, 2004, 40, 2089-2095.	2.6	2
46	Fibrillar morphology formation in a sheared polypropylene melt. , 2014, , .		2
47	Injection molding of iPP samples in controlled conditions and resulting morphology. AIP Conference Proceedings, 2015, , .	0.3	2
48	Thermodynamic properties and crystallization kinetics of isotactic polypropylene under pressure. AIP Conference Proceedings, 2019, , .	0.3	2
49	Effect of processing conditions on the cell morphology distribution in foamed injection molded PLA samples. AIP Conference Proceedings, 2017, , .	0.3	1
50	Morphology Development and Control. , 2019, , 243-294.		1
51	Effects of rapid cavity temperature variations on the crystallinity of PLA. AIP Conference Proceedings, 2020, , .	0.3	1
52	In-situ characterization of polymer crystallization using a low-cost light emitting diode array as optical receiver with photogain. , 0, , .		0
53	Alternatives to Laboratory Animals: In Vitro and In Silico Approaches. Scientia Pharmaceutica, 2010, 78, 589-589.	0.7	0
54	Preface: GT70 Conference. AIP Conference Proceedings, 2015, , .	0.3	0

#	Article	IF	Citations
55	PLA-Based Nanobiocomposites with Modulated Biodegradation Rate. Lecture Notes in Bioengineering, 2018, , 51-60.	0.3	0
56	Effect of rapid temperature variations on the resulting orientation and morphology of micro molded parts. AIP Conference Proceedings, 2018, , .	0.3	0
57	Microinjection molded PLA parts with modulated degradation rates. AIP Conference Proceedings, 2019, , .	0.3	0