Vito Speranza

List of Publications by Year
in descending order

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39	656	566801	580395
papers	citations	15 h-index	25 g-index

41	41	41	598
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Injection Molding Simulation of Polyoxymethylene Using Crystallization Kinetics Data and Comparison with the Experimental Process. Polymer Crystallization, 2022, 2022, 1-15.	0.5	0
2	Morphology predictions in molded parts: a Multiphysics approach. Chemical Engineering Research and Design, 2022, , .	2.7	5
3	Alginate hydrogel: The influence of the hardening on the rheological behaviour. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104341.	1.5	17
4	Prediction of morphology development within microâ€“injection molding samples. Polymer, 2021, 228, 123850.	1.8	10
5	Multi-Scale Simulation of Injection Molding Process with Microâ€“Features Replication: Relevance of Rheological Behaviour and Crystallization. Polymers, 2021, 13, 3236.	2.0	6
6	Morphology-Mechanical Performance Relationship at the Micrometrical Level within Molded Polypropylene Obtained with Non-Symmetric Mold Temperature Conditioning. Polymers, 2021, 13, 462.	2.0	5
7	Morphology distribution within injection molded parts, interpretation on the basis of stretch and work evolutions. AIP Conference Proceedings, 2020, , .	0.3	0
8	Effect of Rapid Mold Heating on the Structure and Performance of Injection-Molded Polypropylene. Polymers, 2020, 12, 341.	2.0	23
9	Modelling of morphology development towards spherulites and shishâ€“kebabs: Application to isothermal flow-induced crystallization experiments on isotactic polypropylene. Polymer, 2020, 196, 122459.	1.8	19
10	Prediction of the maximum flow length of a thin injection molded part. Journal of Polymer Engineering, 2020, 40, 783-795.	0.6	5
11	Structure/properties relationship within injection molding samples obtained by fast modulation of the cavity temperature. AIP Conference Proceedings, 2020, , .	0.3	0
12	Modeling morphology distribution within injection molded parts. AIP Conference Proceedings, 2019, , .	0.3	0
13	Thinâ€film nanostructure and polymer architecture in semicrystalline syndiotactic poly(pâ€methylstyrene)â€“(cisâ€1,4â€polybutadiene) multiblock copolymers. Polymer International, 2019, 68, 1681-1687.	1.6	3
14	Modeling of the Injection Molding Process Coupled with the Fast Mold Temperature Evolution. Journal of the Electrochemical Society, 2019, 166, B3148-B3155.	1.3	8
15	Polymer Processing: Modeling and Correlations Finalized to Tailoring Plastic Part Morphology and Properties. Materials, 2019, 12, 1217.	1.3	0
16	Synthesis and Characterization of Syndiotactic Polystyrene-Polyethylene Block Copolymer. Polymers, 2019, 11, 698.	2.0	1
17	Morphology Development and Control. , 2019, , 243-294.		1
18	UV Irradiated Graphene-Based Nanocomposites: Change in the Mechanical Properties by Local HarmoniX Atomic Force Microscopy Detection. Materials, 2019, 12, 962.	1.3	10

#	Article	IF	Citations
19	Process Induced Morphology Development of Isotactic Polypropylene on the Basis of Molecular Stretch and Mechanical Work Evolutions. Materials, 2019, 12, 505.	1.3	13
20	Hierarchical Structure of iPP During Injection Molding Process with Fast Mold Temperature Evolution. Materials, 2019, 12, 424.	1.3	28
21	Improvement of tensile properties, self-healing and recycle of thermoset styrene/2-vinylfuran copolymers via thermal triggered rearrangement of covalent crosslink. European Polymer Journal, 2018, 99, 368-377.	2.6	13
22	Multifunctional graphene/POSS epoxy resin tailored for aircraft lightning strike protection. Composites Part B: Engineering, 2018, 140, 44-56.	5.9	98
23	Replication of Micro- and Nanofeatures in Injection Molding of Two PLA Grades with Rapid Surface-Temperature Modulation. Materials, 2018, 11, 1442.	1.3	14
24	Hydrophobicity Tuning by the Fast Evolution of Mold Temperature during Injection Molding. Polymers, 2018, 10, 322.	2.0	14
25	Replication of micro-features on PLA: Effect of viscosity during injection molding with fast evolution of cavity surface temperature. AIP Conference Proceedings, 2018, , .	0.3	0
26	Effect of flow-induced crystallization on the distribution of spherulite dimensions along cross section of injection molded parts. European Polymer Journal, 2017, 97, 220-229.	2.6	37
27	Replication of micro and nano-features on iPP by injection molding with fast cavity surface temperature evolution. Materials and Design, 2017, 133, 559-569.	3.3	30
28	Mechanical Properties Distribution within Polypropylene Injection Molded Samples: Effect of Mold Temperature under Uneven Thermal Conditions. Polymers, 2017, 9, 585.	2.0	51
29	Flexible Poly(Amideâ€Imide)â€Carbon Black Based Microheater with Highâ€Temperature Capability and an Extremely Low Temperature Coefficient. Advanced Electronic Materials, 2016, 2, 1600126.	2.6	28
30	Analysis of flow induced crystallization through molecular stretch. Polymer, 2016, 105, 187-194.	1.8	15
31	Effect of an acid filler on hydrolysis and biodegradation of poly-lactic acid (PLA). AIP Conference Proceedings, 2015, , .	0.3	1
32	Effect of crystallinity on the viscosity of an isotactic polypropylene. AIP Conference Proceedings, 2015, , .	0.3	2
33	Novel nanostructured semicrystalline ionomers by chemoselective sulfonation of multiblock copolymers of syndiotactic polystyrene with polybutadiene. RSC Advances, 2014, 4, 60158-60167.	1.7	14
34	Evolution of iPP Relaxation Spectrum during Crystallization. Macromolecular Theory and Simulations, 2014, 23, 300-306.	0.6	30
35	Syndiotactic Polystyreneâ€blockâ€Poly(methyl methacrylate) Copolymer via Click Chemistry. Macromolecular Chemistry and Physics, 2013, 214, 1990-1997.	1.1	18
36	Novel Synthetic Strategy for the Sulfonation of Polybutadiene and Styreneâ€“Butadiene Copolymers. Macromolecules, 2013, 46, 778-784.	2.2	27

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37	Orientation distribution in injection molding: a further step toward more accurate simulations. Rheologica Acta, 2012, 51, 1041-1050.	1.1	6
38	Analysis of Shrinkage Development of a Semicrystalline Polymer during Injection Molding. Industrial & Engineering Chemistry Research, 2010, 49, 2469-2476.	1.8	51
39	Molecular orientation in injection molding: experiments and analysis. Rheologica Acta, 2004, 43, 109-118.	1.1	53