

Vito Speranza

List of Publications by Year in descending order

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598
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#	ARTICLE	IF	CITATIONS
1	Multifunctional graphene/POSS epoxy resin tailored for aircraft lightning strike protection. <i>Composites Part B: Engineering</i> , 2018, 140, 44-56.	5.9	98
2	Molecular orientation in injection molding: experiments and analysis. <i>Rheologica Acta</i> , 2004, 43, 109-118.	1.1	53
3	Analysis of Shrinkage Development of a Semicrystalline Polymer during Injection Molding. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 2469-2476.	1.8	51
4	Mechanical Properties Distribution within Polypropylene Injection Molded Samples: Effect of Mold Temperature under Uneven Thermal Conditions. <i>Polymers</i> , 2017, 9, 585.	2.0	51
5	Effect of flow-induced crystallization on the distribution of spherulite dimensions along cross section of injection molded parts. <i>European Polymer Journal</i> , 2017, 97, 220-229.	2.6	37
6	Evolution of iPP Relaxation Spectrum during Crystallization. <i>Macromolecular Theory and Simulations</i> , 2014, 23, 300-306.	0.6	30
7	Replication of micro and nano-features on iPP by injection molding with fast cavity surface temperature evolution. <i>Materials and Design</i> , 2017, 133, 559-569.	3.3	30
8	Flexible Poly(Amide- <i>co</i> -imide)-Carbon Black Based Microheater with High-Temperature Capability and an Extremely Low Temperature Coefficient. <i>Advanced Electronic Materials</i> , 2016, 2, 1600126.	2.6	28
9	Hierarchical Structure of iPP During Injection Molding Process with Fast Mold Temperature Evolution. <i>Materials</i> , 2019, 12, 424.	1.3	28
10	Novel Synthetic Strategy for the Sulfonation of Polybutadiene and Styrene- <i>co</i> -Butadiene Copolymers. <i>Macromolecules</i> , 2013, 46, 778-784.	2.2	27
11	Effect of Rapid Mold Heating on the Structure and Performance of Injection-Molded Polypropylene. <i>Polymers</i> , 2020, 12, 341.	2.0	23
12	Modelling of morphology development towards spherulites and shish-kebabs: Application to isothermal flow-induced crystallization experiments on isotactic polypropylene. <i>Polymer</i> , 2020, 196, 122459.	1.8	19
13	Syndiotactic Polystyrene- <i>co</i> -Poly(methyl methacrylate) Copolymer via Click Chemistry. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 1990-1997.	1.1	18
14	Alginate hydrogel: The influence of the hardening on the rheological behaviour. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104341.	1.5	17
15	Analysis of flow induced crystallization through molecular stretch. <i>Polymer</i> , 2016, 105, 187-194.	1.8	15
16	Novel nanostructured semicrystalline ionomers by chemoselective sulfonation of multiblock copolymers of syndiotactic polystyrene with polybutadiene. <i>RSC Advances</i> , 2014, 4, 60158-60167.	1.7	14
17	Replication of Micro- and Nanofeatures in Injection Molding of Two PLA Grades with Rapid Surface-Temperature Modulation. <i>Materials</i> , 2018, 11, 1442.	1.3	14
18	Hydrophobicity Tuning by the Fast Evolution of Mold Temperature during Injection Molding. <i>Polymers</i> , 2018, 10, 322.	2.0	14

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19	Improvement of tensile properties, self-healing and recycle of thermoset styrene/2-vinylfuran copolymers via thermal triggered rearrangement of covalent crosslink. <i>European Polymer Journal</i> , 2018, 99, 368-377.	2.6	13
20	Process Induced Morphology Development of Isotactic Polypropylene on the Basis of Molecular Stretch and Mechanical Work Evolutions. <i>Materials</i> , 2019, 12, 505.	1.3	13
21	UV Irradiated Graphene-Based Nanocomposites: Change in the Mechanical Properties by Local HarmoniX Atomic Force Microscopy Detection. <i>Materials</i> , 2019, 12, 962.	1.3	10
22	Prediction of morphology development within microâ€“injection molding samples. <i>Polymer</i> , 2021, 228, 123850.	1.8	10
23	Modeling of the Injection Molding Process Coupled with the Fast Mold Temperature Evolution. <i>Journal of the Electrochemical Society</i> , 2019, 166, B3148-B3155.	1.3	8
24	Orientation distribution in injection molding: a further step toward more accurate simulations. <i>Rheologica Acta</i> , 2012, 51, 1041-1050.	1.1	6
25	Multi-Scale Simulation of Injection Molding Process with Microâ€“Features Replication: Relevance of Rheological Behaviour and Crystallization. <i>Polymers</i> , 2021, 13, 3236.	2.0	6
26	Morphology-Mechanical Performance Relationship at the Micrometrical Level within Molded Polypropylene Obtained with Non-Symmetric Mold Temperature Conditioning. <i>Polymers</i> , 2021, 13, 462.	2.0	5
27	Prediction of the maximum flow length of a thin injection molded part. <i>Journal of Polymer Engineering</i> , 2020, 40, 783-795.	0.6	5
28	Morphology predictions in molded parts: a Multiphysics approach. <i>Chemical Engineering Research and Design</i> , 2022, , .	2.7	5
29	Thinâ€“film nanostructure and polymer architecture in semicrystalline syndiotactic poly(<i>p</i> -methylstyrene)- <i>cis</i> -polybutadiene) multiblock copolymers. <i>Polymer International</i> , 2019, 68, 1681-1687.	1.6	3
30	Effect of crystallinity on the viscosity of an isotactic polypropylene. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
31	Effect of an acid filler on hydrolysis and biodegradation of poly-lactic acid (PLA). <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
32	Synthesis and Characterization of Syndiotactic Polystyrene-Polyethylene Block Copolymer. <i>Polymers</i> , 2019, 11, 698.	2.0	1
33	Morphology Development and Control. , 2019, , 243-294.		1
34	Replication of micro-features on PLA: Effect of viscosity during injection molding with fast evolution of cavity surface temperature. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
35	Modeling morphology distribution within injection molded parts. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
36	Polymer Processing: Modeling and Correlations Finalized to Tailoring Plastic Part Morphology and Properties. <i>Materials</i> , 2019, 12, 1217.	1.3	0

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37	Morphology distribution within injection molded parts, interpretation on the basis of stretch and work evolutions. AIP Conference Proceedings, 2020, , .	0.3	0
38	Structure/properties relationship within injection molding samples obtained by fast modulation of the cavity temperature. AIP Conference Proceedings, 2020, , .	0.3	0
39	Injection Molding Simulation of Polyoxymethylene Using Crystallization Kinetics Data and Comparison with the Experimental Process. Polymer Crystallization, 2022, 2022, 1-15.	0.5	0