

Gilles RÃ©gnier

List of Publications by Year in descending order

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docs citations

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1243
citing authors

#	ARTICLE	IF	CITATIONS
1	Fused filament fabrication process window for good interlayer bonding: Application to highly filled polymers in metallic powder*. Polymer Engineering and Science, 2022, 62, 336-348.	3.1	1
2	Embrittlement of polybutylene terephthalate induced by injection molding. Polymer Degradation and Stability, 2022, 196, 109843.	5.8	1
3	Thermal and Crystallization Properties of the Alternated Tere/Iso PEKK Copolymer: Importance in High-Temperature Laser Sintering. ACS Applied Polymer Materials, 2022, 4, 2806-2818.	4.4	3
4	Crystalline orientation assessment in transversely isotropic semicrystalline polymer: Application to oedometric compaction of PTFE. Polymer Engineering and Science, 2021, 61, 107-114.	3.1	2
5	Fiber Orientation and Concentration in an Injection-Molded Ethylene-Propylene Copolymer Reinforced by Hemp. Polymers, 2020, 12, 2771.	4.5	10
6	PTFE crystallization mechanisms: Insight from calorimetric and dilatometric experiments. Polymer, 2020, 193, 122333.	3.8	15
7	Impact of Nanoconfinement on Polylactide Crystallization and Gas Barrier Properties. ACS Applied Materials & Interfaces, 2020, 12, 9953-9965.	8.0	21
8	Influence of thermal history on the mechanical properties of poly(ether ketone ketone) copolymers. Polymer Crystallization, 2019, 2, e10086.	0.8	8
9	Frontal weld lines in injection-molded short fiber-reinforced PBT: Extensive microstructure characterization for mechanical performance evaluation. Polymer Composites, 2019, 40, 4547-4558.	4.6	9
10	Mechanical characterization of frontal and flowing weld lines in injection-molded short fiber-reinforced thermoplastics. AIP Conference Proceedings, 2019, , .	0.4	2
11	Prediction and Sensitivity Analysis of Bubble Dissolution Time in 3D Selective Laser Sintering Using Ensemble Decision Trees. Materials, 2019, 12, 1544.	2.9	57
12	Thermal cycling of cold-pressed PTFE compacts: Reversible and irreversible behavior. Polymer Testing, 2019, 75, 99-106.	4.8	5
13	Mechanical and microstructural characterization of flowing weld lines in injection-molded short fiber-reinforced PBT. Polymer Testing, 2019, 74, 152-162.	4.8	18
14	On the factors affecting porosity dissolution in selective laser sintering process. AIP Conference Proceedings, 2018, , .	0.4	3
15	Preparation and characterization of poly(ethylene terephthalate) films coated by chitosan and vermiculite nanoclay. Carbohydrate Polymers, 2018, 201, 392-401.	10.2	17
16	A more reliable DSC-based methodology to study crystallization kinetics: Application to poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	33
17	Isothermal crystallization kinetic modeling of poly(etherketoneketone) (PEKK) copolymer. Polymer, 2017, 111, 73-82.	3.8	46
18	Crystallization kinetics of polymer fibrous nanocomposites. European Polymer Journal, 2016, 83, 181-201.	5.4	11

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19	Experimental and numerical analysis of the selective laser sintering (SLS) of PA12 and PEKK semi-crystalline polymers. <i>Journal of Materials Processing Technology</i> , 2015, 225, 326-336.	6.3	103
20	Influence of thermal diffusion and shear thinning during the leveling of nanoimprinted patterns in a polystyrene thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 387-397.	2.3	4
21	Influence of injection molding on the electrical properties of polyamide 12 filled with multi-walled carbon nanotubes. <i>Polymer</i> , 2014, 55, 6811-6818.	3.8	35
22	The CryoCapsule: Simplifying Correlative Light to Electron Microscopy. <i>Traffic</i> , 2014, 15, 700-716.	2.7	29
23	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. <i>Polymer</i> , 2014, 55, 248-257.	3.8	65
24	Legitimate domain of a Newtonian behavior for thermal nanoimprint lithography. <i>Microelectronic Engineering</i> , 2013, 110, 215-218.	2.4	0
25	Limitations of Simple Flow Models for the Simulation of Nanoimprint. <i>International Polymer Processing</i> , 2013, 28, 72-78.	0.5	1
26	Structure and molecular dynamics of multilayered polycarbonate/polystyrene films. <i>Journal of Applied Polymer Science</i> , 2012, 125, 4267-4274.	2.6	8
27	Shear strain step response in linear regime of dilute suspensions of naturally bent carbon nanotubes. <i>Journal of Applied Polymer Science</i> , 2012, 125, 4347-4357.	2.6	2
28	Review on the Brownian Dynamics Simulation of Bead-Rod-Spring Models Encountered in Computational Rheology. <i>Archives of Computational Methods in Engineering</i> , 2012, 19, 227-259.	10.2	32
29	Simulation of the stretch blow moulding process: from the modelling of the microstructure evolution to the end-use elastic properties of polyethylene terephthalate bottles. <i>International Journal of Material Forming</i> , 2012, 5, 39-53.	2.0	18
30	A mesofluidic multiplex immunosensor for detection of circulating cytokeratin-positive cells in the blood of breast cancer patients. <i>Biomedical Microdevices</i> , 2011, 13, 1-9.	2.8	12
31	A torsion test for the study of the large deformation recovery of shape memory polymers. <i>Polymer Testing</i> , 2011, 30, 335-341.	4.8	39
32	Filtering out slow-scan drifts in atomic force microscopy images. <i>Journal of Strain Analysis for Engineering Design</i> , 2011, 46, 361-367.	1.8	9
33	Effects of a bent structure on the linear viscoelastic response of diluted carbon nanotube suspensions. <i>Rheologica Acta</i> , 2010, 49, 1141-1155.	2.4	20
34	Thermoforming of a PMMA transparency near glass transition temperature. <i>Polymer Engineering and Science</i> , 2010, 50, 2004-2012.	3.1	7
35	Modeling nanocomposites: from rheology to forming processes simulation. <i>International Journal of Material Forming</i> , 2009, 2, 141-144.	2.0	5
36	Micromechanical modelling of the viscoelastic behaviour of an amorphous poly(ethylene)terephthalate (PET) reinforced by spherical glass beads. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 695-701.	7.6	14

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37	Assessment of the Thermoelastic Properties of an Injection molded short-fiber Composite: Experimental and Modelling. International Journal of Material Forming, 2008, 1, 787-790.	2.0	2
38	Modeling elastic behaviour in functionalized carbon nanotube suspensions. International Journal of Material Forming, 2008, 1, 631-634.	2.0	2
39	A simplified method to determine the 3D orientation of an injection molded fiber-filled polymer. Polymer Engineering and Science, 2008, 48, 2159-2168.	3.1	18
40	On the relevance of the micromechanics approach for predicting the linear viscoelastic behavior of semi-crystalline poly(ethylene)terephthalates (PET). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 229-234.	5.6	18
41	Comparison of several closure approximations for evaluating the thermoelastic properties of an injection molded short-fiber composite. Composites Science and Technology, 2007, 67, 1601-1610.	7.8	60
42	Micromechanical modeling of isotropic elastic behavior of semicrystalline polymers. Acta Materialia, 2006, 54, 1513-1523.	7.9	99
43	Micromechanical modeling of elastic properties in polyolefins. Polymer, 2004, 45, 2433-2442.	3.8	67
44	Spatial distribution of molecular orientation in injection molded iPP: influence of processing conditions. Polymer, 2003, 44, 3363-3373.	3.8	64
45	Corner Deformation of Injected Thermoplastic Parts. International Journal of Forming Processes, 2003, 6, 53-70.	0.3	9
46	Induced crystallization and orientation of poly(ethylene terephthalate) during uniaxial and biaxial elongation. Macromolecular Symposia, 2002, 185, 15-34.	0.7	25
47	PVT measurement methodology for semicrystalline polymers to simulate injection-molding process. Journal of Applied Polymer Science, 2001, 79, 302-311.	2.6	42
48	Modification des propriÃ©tÃ©s durant le soufflage des bouteilles plastiques en PETMaterial properties evolution during stretch blow moulding of PET bottles. Mecanique Et Industries, 2001, 2, 229-248.	0.2	2
49	Nature of contact between polymer and mold in injection molding. Part I: Influence of a non-perfect thermal contact. Polymer Engineering and Science, 2000, 40, 1682-1691.	3.1	84
50	Nature of contact between polymer and mold in injection molding. Part II: Influence of mold deflection on pressure history and shrinkage. Polymer Engineering and Science, 2000, 40, 1692-1700.	3.1	32
51	Effect of cavity pressure on crosslink density of injection moulded silicone rubber. Plastics, Rubber and Composites, 2000, 29, 229-234.	2.0	2
52	Induced crystallinity during stretch-blow moulding process and its influence on mechanical strength of poly(ethylene terephthalate) bottles. Plastics, Rubber and Composites, 1999, 28, 393-400.	2.0	24
53	Determination of the Inter-Relationships Between Processing Conditions and Properties of an Injection Molded Silicone Ring Using an Experimental Design. International Polymer Processing, 1997, 12, 174-181.	0.5	5
54	Local orthotropic shrinkage determination in injected moulded polymer plates. Polymer Testing, 1993, 12, 383-392.	4.8	9

#	ARTICLE	IF	CITATIONS
55	Fused filament fabrication printing process of polymers highly filled with metallic powder: a significant influence of the nozzle radiation on the substrate temperature. International Journal of Material Forming, 0, , .	2.0	2
56	Use of a digital image correlation method for full-field shrinkage measurement in injection molding. Journal of Strain Analysis for Engineering Design, 0, , 030932472110602.	1.8	0