Gilles RÃ©gnier

List of Publications by Year
in descending order

Version: 2024-02-01

56	1,235	394421	377865
papers	citations	19	34
		h-index	g-index

57	57	57	1243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and numerical analysis of the selective laser sintering (SLS) of PA12 and PEKK semi-crystalline polymers. Journal of Materials Processing Technology, 2015, 225, 326-336.	6.3	103
2	Micromechanical modeling of isotropic elastic behavior of semicrystalline polymers. Acta Materialia, 2006, 54, 1513-1523.	7.9	99
3	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
4	Micromechanical modeling of elastic properties in polyolefins. Polymer, 2004, 45, 2433-2442.	3.8	67
5	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. Polymer, 2014, 55, 248-257.	3.8	65
6	Spatial distribution of molecular orientation in injection molded iPP: influence of processing conditions. Polymer, 2003, 44, 3363-3373.	3.8	64
7	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
8	Prediction and Sensitivity Analysis of Bubble Dissolution Time in 3D Selective Laser Sintering Using Ensemble Decision Trees. Materials, 2019, 12, 1544.	2.9	57
9	Isothermal crystallization kinetic modeling of poly(etherketoneketone) (PEKK) copolymer. Polymer, 2017, 111, 73-82.	3.8	46
10	PVT measurement methodology for semicrystalline polymers to simulate injection-molding process. Journal of Applied Polymer Science, 2001, 79, 302-311.	2.6	42
11	A torsion test for the study of the large deformation recovery of shape memory polymers. Polymer Testing, 2011, 30, 335-341.	4.8	39
12	Influence of injection molding on the electrical properties of polyamide 12 filled with multi-walled carbon nanotubes. Polymer, 2014, 55, 6811-6818.	3.8	35
13	A more reliable DSC-based methodology to study crystallization kinetics: Application to poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock	3.8	33
14	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
15	Review on the Brownian Dynamics Simulation of Bead-Rod-Spring Models Encountered in Computational Rheology. Archives of Computational Methods in Engineering, 2012, 19, 227-259.	10.2	32
16	The <scp>CryoCapsule</scp>: Simplifying Correlative Light to Electron Microscopy. Traffic, 2014, 15, 700-716.	2.7	29
17	Induced crystallization and orientation of poly(ethylene terephthalate) during uniaxial and biaxial elongation. Macromolecular Symposia, 2002, 185, 15-34.	0.7	25
18	Induced crystallinity during stretchâ€“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

#	ARTICLE	IF	CITATIONS
19	Impact of Nanoconfinement on Polylactide Crystallization and Gas Barrier Properties. ACS Applied Materials & Interfaces, 2020, 12, 9953-9965.	8.0	21
20	Effects of a bent structure on the linear viscoelastic response of diluted carbon nanotube suspensions. Rheologica Acta, 2010, 49, 1141-1155.	2.4	20
21	A simplified method to determine the 3D orientation of an injection molded fiberâ€filled polymer. Polymer Engineering and Science, 2008, 48, 2159-2168.	3.1	18
22	On the relevance of the micromechanics approach for predicting the linear viscoelastic behavior of semi-crystalline poly(ethylene)terephtalates (PET). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 475, 229-234.	5.6	18
23	Simulation of the stretch blow moulding process: from the modelling of the microstructure evolution to the end-use elastic properties of polyethylene terephthalate bottles. International Journal of Material Forming, 2012, 5, 39-53.	2.0	18
24	Mechanical and microstructural characterization of flowing weld lines in injection-molded short fiber-reinforced PBT. Polymer Testing, 2019, 74, 152-162.	4.8	18
25	Preparation and characterization of poly(ethylene terephthalate) films coated by chitosan and vermiculite nanoclay. Carbohydrate Polymers, 2018, 201, 392-401.	10.2	17
26	PTFE crystallization mechanisms: Insight from calorimetric and dilatometric experiments. Polymer, 2020, 193, 122333.	3.8	15
27	Micromechanical modelling of the viscoelastic behaviour of an amorphous poly(ethylene)terephthalate (PET) reinforced by spherical glass beads. Composites Part A: Applied Science and Manufacturing, 2009, 40, 695-701.	7.6	14
28	A mesofluidic multiplex immunosensor for detection of circulating cytokeratin-positive cells in the blood of breast cancer patients. Biomedical Microdevices, 2011, 13, 1-9.	2.8	12
29	Crystallization kinetics of polymer fibrous nanocomposites. European Polymer Journal, 2016, 83, 181-201.	5.4	11
30	Fiber Orientation and Concentration in an Injection-Molded Ethylene-Propylene Copolymer Reinforced by Hemp. Polymers, 2020, 12, 2771.	4.5	10
31	Local orthotropic shrinkage determination in injected moulded polymer plates. Polymer Testing, 1993, 12, 383-392.	4.8	9
32	Filtering out slow-scan drifts in atomic force microscopy images. Journal of Strain Analysis for Engineering Design, 2011, 46, 361-367.	1.8	9
33	Frontal weld lines in injectionâ€molded short fiberâ€reinforced PBT: Extensive microstructure characterization for mechanical performance evaluation. Polymer Composites, 2019, 40, 4547-4558.	4.6	9
34	Corner Deformation of Injected Thermoplastic Parts. International Journal of Forming Processes, 2003, 6, 53-70.	0.3	9
35	Structure and molecular dynamics of multilayered polycarbonate/polystyrene films. Journal of Applied Polymer Science, 2012, 125, 4267-4274.	2.6	8
36	Influence of thermal history on the mechanical properties of poly(ether ketone ketone) copolymers. Polymer Crystallization, 2019, 2, e10086.	0.8	8

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37	Thermoforming of a PMMA transparency near glass transition temperature. Polymer Engineering and Science, 2010, 50, 2004-2012.	3.1	7
38	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
39	Modeling nanocomposites: from rheology to forming processes simulation. International Journal of Material Forming, 2009, 2, 141-144.	2.0	5
40	Thermal cycling of cold-pressed PTFE compacts: Reversible and irreversible behavior. Polymer Testing, 2019, 75, 99-106.	4.8	5
41	Influence of thermal diffusion and shearÂthinning during the leveling of nanoimprinted patterns in a polystyrene thin film. Applied Physics A: Materials Science and Processing, 2015, 121, 387-397.	2.3	4
42	On the factors affecting porosity dissolution in selective laser sintering process. AIP Conference Proceedings, 2018, , .	0.4	3
43	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
44	Effect of cavity pressure on crosslink density of injection moulded silicone rubber. Plastics, Rubber and Composites, 2000, 29, 229-234.	2.0	2
45	Modification des propriÃƒÂ©tÃƒÂ©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
46	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
47	Modeling elastic behaviour in functionalized carbon nanotube suspensions. International Journal of Material Forming, 2008, 1, 631-634.	2.0	2
48	Shearâ€strain step response in linear regime of dilute suspensions of naturally bent carbon nanotubes. Journal of Applied Polymer Science, 2012, 125, 4347-4357.	2.6	2
49	Mechanical characterization of frontal and flowing weld lines in injection-molded short fiber-reinforced thermoplastics. AIP Conference Proceedings, 2019, , .	0.4	2
50	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
51	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
52	Limitations of Simple Flow Models for the Simulation of Nanoimprint. International Polymer Processing, 2013, 28, 72-78.	0.5	1
53	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
54	Embrittlement of polybutylene terephthalate induced by injection molding. Polymer Degradation and Stability, 2022, 196, 109843.	5.8	1

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55	Legitimate domain of a Newtonian behavior for thermal nanoimprint lithography. Microelectronic Engineering, 2013, 110, 215-218.	2.4	0
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