Marie-France Lacrampe

List of Publications by Year
in descending order

63 papers	2,651 citations	236925 25 h-index	182427 51 g-index
64 all docs	64 docs citations	64 times ranked	3148 citing authors

#	Article	IF	Citations
1	Thermosetting (bio)materials derived from renewable resources: A critical review. Progress in Polymer Science, 2010, 35, 487-509.	24.7	782
2	Masterbatch-based multi-walled carbon nanotube filled polypropylene nanocomposites: Assessment of rheological and mechanical properties. Composites Science and Technology, 2009, 69, 1756-1763.	7.8	341
3	Multi-walled carbon nanotube filled polypropylene nanocomposites based on masterbatch route: Improvement of dispersion and mechanical properties through PP-g-MA addition. EXPRESS Polymer Letters, 2008, 2, 735-745.	2.1	185
4	Mechanical behaviour and essential work of fracture of halloysite nanotubes filled polyamide 6 nanocomposites. Composites Science and Technology, 2011, 71, 1859-1866.	7.8	117
5	Studies on the effect of storage time and plasticizers on the structural variations in thermoplastic starch. Carbohydrate Polymers, 2015, 115, 364-372.	10.2	93
6	Preparation and properties of novel melt-blended halloysite nanotubes/wheat starch nanocomposites. Carbohydrate Polymers, 2012, 89, 920-927.	10.2	84
7	Highly dispersed polyamideâ€11/halloysite nanocomposites: Thermal, rheological, optical, dielectric, and mechanical properties. Journal of Applied Polymer Science, 2013, 130, 313-321.	2.6	54
8	Plasticized-starch/poly(ethylene oxide) blends prepared by extrusion. Carbohydrate Polymers, 2013, 91, 253-261.	10.2	53
9	Poly(lactic acid)/halloysite nanotubes nanocomposites: Structure, thermal, and mechanical properties as a function of halloysite treatment. Journal of Applied Polymer Science, 2013, 128, 1895-1903.	2.6	47
10	Development of waterâ€blown bioâ€based thermoplastic polyurethane foams using bioâ€derived chain extender. Journal of Applied Polymer Science, 2013, 128, 292-303.	2.6	47
11	Deformation mechanisms of plasticized starch materials. Carbohydrate Polymers, 2014, 114, 450-457.	10.2	43
12	Mechanical and Optical Properties of Polyamide 6/Clay Nanocomposite Cast Films: Influence of the Degree of Exfoliation. Macromolecular Materials and Engineering, 2012, 297, 444-454.	3.6	41
13	Chemical foaming extrusion of poly(lactic acid) with chain-extenders: Physical and morphological characterizations. European Polymer Journal, 2015, 67, 40-49.	5.4	36
14	Taguchi analysis of shrinkage and warpage of injection-moulded polypropylene/multiwall carbon nanotubes nanocomposites. EXPRESS Polymer Letters, 2009, 3, 630-638.	2.1	36
15	Preparation and characterization of plasticized starch/halloysite porous nanocomposites possibly suitable for biomedical applications. Journal of Applied Polymer Science, 2015, 132, .	2.6	34
16	Evaluation of rheological properties of non-Newtonian fluids in micro rheology compounder: Experimental procedures for a reliable polymer melt viscosity measurement. Polymer Testing, 2014, 40, 207-217.	4.8	32
17	Melt-blended halloysite nanotubes/wheat starch nanocomposites as drug delivery system. Polymer Engineering and Science, 2015, 55, 573-580.	3.1	32
18	Characterisation of low-odour emissive polylactide/cellulose fibre biocomposites for car interior. EXPRESS Polymer Letters, 2013, 7, 787-804.	2.1	31

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19	Compatibilization of Immiscible Polymer Blends by Organoclay: Effect of Nanofiller or Organoâ€Modifier?. Macromolecular Materials and Engineering, 2013, 298, 757-770.	3.6	30
20	Optimization of PE/binder/PA extrusion blow-molded films. II. Adhesion properties improvement using binder/EVA blends. Journal of Applied Polymer Science, 2006, 101, 118-127.	2.6	29
21	A constitutive model for semi-crystalline polymers at high temperature and finite plastic strain: Application to PA6 and PE biaxial stretching. Mechanics of Materials, 2010, 42, 686-697.	3.2	29
22	Morphology and mechanical properties of PET/PE blends compatibilized by nanoclays: Effect of thermal stability of nanofiller organic modifier. Journal of Applied Polymer Science, 2013, 128, 2766-2778.	2.6	29
23	Effect of injection molding parameters on nanofillers dispersion in masterbatch based PP-clay nanocomposites. EXPRESS Polymer Letters, 2012, 6, 237-248.	2.1	28
24	Development of poly(lactic acid) cellular materials: Physical and morphological characterizations. Polymer, 2012, 53, 5885-5895.	3.8	28
25	Polyamide-6/Clay Nanocomposites: A Critical Review. Polymers and Polymer Composites, 2006, 14, 13-38.	1.9	27
26	Investigation of Stress and Temperature Effect on the Longitudinal Ultrasonic Waves in Polymers. Research in Nondestructive Evaluation, 2014, 25, 20-29.	1.1	24
27	Efficient one-step melt-compounding of copolyetheramide/pristine clay nanocomposites using water-injection as intercalating/exfoliating aid. EXPRESS Polymer Letters, 2011, 5, 1085-1101.	2.1	22
28	Weld-line sensitivity of injected amorphous polymers. Journal of Applied Polymer Science, 2004, 93, 644-650.	2.6	21
29	Optimization of PE/Binder/PA extrusion blow-molded films. I. Heat sealing ability improvement using PE/EVA blends. Journal of Applied Polymer Science, 2006, 99, 974-985.	2.6	20
30	A new elaboration concept of polypropylene/unmodified Montmorillonite nanocomposites by reactive extrusion based on direct injection of polypropylene aqueous suspensions. Polymer Engineering and Science, 2009, 49, 2276-2285.	3.1	19
31	Processing and Characterization of Polypropylene Filled with Multiwalled Carbon Nanotube and Clay Hybrid Nanocomposites. International Journal of Polymer Analysis and Characterization, 2014, 19, 363-371.	1.9	18
32	Numerical simulation on the flow and heat transfer of polymer powder in rotational molding. International Journal of Material Forming, 2015, 8, 423-438.	2.0	18
33	Scalable Production of Multifunctional Bioâ€Based Polyamide 11/Graphene Nanocomposites by Melt Extrusion Processes Via Masterbatch Approach. Advances in Polymer Technology, 2018, 37, 1067-1075.	1.7	18
34	Numerical analysis of effective thermal conductivity of plastic foams. Journal of Materials Science, 2016, 51, 9217-9228.	3.7	17
35	Mechanical, Optical and Barrier Properties of Pa6/Nanoclay-Based Single- and Multilayer Blown Films. Polymers and Polymer Composites, 2008, 16, 349-358.	1.9	14
36	Trichroic infrared analysis of the strain-induced structural changes in the PA6 layer of PA6/PE multilayer films under biaxial drawing. Polymer, 2009, 50, 5812-5823.	3.8	13

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37	The role of strain-induced structural changes on the mechanical behavior of PA6/PE multilayer films under uniaxial drawing. Polymer, 2012, 53, 5336-5346.	3.8	13
38	High performance finned-tube heat exchangers based on filled polymer. Applied Thermal Engineering, 2019, 155, 620-630.	6.0	13
39	In situ fibrillation of polypropylene/polyamide 6 blends: Effect of organoclay addition. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
40	Study of partial shape memory effect of polymers by multicycle tests. Polymer Composites, 2015, 36, 1145-1151.	4.6	9
41	Melt compatibility between polyolefins: Evaluation and reliability of interfacial/surface tensions obtained by various techniques. Polymer Testing, 2019, 78, 105995.	4.8	9
42	Tailoring the properties of thermoplastic starch by blending with cinnamyl alcohol and radiation processing: An insight into the competitive grafting and scission reactions. Radiation Physics and Chemistry, 2012, 81, 986-990.	2.8	8
43	Toughening of poly(lactic acid) without sacrificing stiffness and strength by melt-blending with polyamide 11 and selective localization of halloysite nanotubes. AIP Conference Proceedings, 2016, , .	0.4	8
44	Rheological Considerations in Processing Self-Reinforced Thermoplastic Polymer Nanocomposites: A Review. Polymers, 2022, 14, 637.	4.5	8
45	Optimization of polyethylene/binder/polyamide extrusion blowâ€molded films. III. Slippability improvement with fatty acid amides. Journal of Applied Polymer Science, 2010, 115, 2332-2345.	2.6	7
46	In-situ nano-fibrillation of poly(butylene succinate-co-adipate) in isosorbide-based polycarbonate matrix. Relationship between rheological parameters and induced morphological and mechanical properties. Polymer, 2021, 217, 123445.	3.8	7
47	Metallocene polypropylene crystallization kinetic during cooling in rotational molding thermal condition. Journal of Applied Polymer Science, 2013, 130, 222-233.	2.6	6
48	Die swell of thermoplastic polyurethanes: A peculiar behavior. Journal of Applied Polymer Science, 2001, 80, 1710-1724.	2.6	5
49	Phosphorous antioxidants against polypropylene thermal degradation during rotational moldingâ€kinetic modeling. Journal of Applied Polymer Science, 2015, 132, .	2.6	5
50	Vibrational energy-harvesting performance of bio-sourced flexible polyamide 11/layered silicate nanocomposite films. International Journal of Polymer Analysis and Characterization, 2017, 22, 72-82.	1.9	5
51	Processing and Mechanical Behaviour of Halloysite Filled Starch Based Nanocomposites. Advanced Materials Research, 0, 584, 445-449.	0.3	4
52	Processingâ€induced degradation of nanoclay organic modifier in meltâ€mixed PET/PE blends during twin screw extrusion at industrial scale: Effect on morphology and mechanical behavior. Journal of Applied Polymer Science, 2014, 131, .	2.6	4
53	Numerical simulation of reactive polymer flow during rotational molding using smoothed particle hydrodynamics method and experimental verification. International Journal of Material Forming, 2018, 11, 583-592.	2.0	4
54	(Nano)Fibrillar morphology development in biobased poly(butylene<scp>succinateâ€coâ€adipate</scp>)/poly(amideâ€11) blown films. Polymer Engineering and Science, 2021, 61, 1324-1337.	3.1	4

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55	Contribution for a better characterization of the tensile mechanical behaviour of flax/PP biocomposite materials. Materials Research Express, 2018, 5, 125504.	1.6	3
56	Characterization of extrusion flow using particle image velocimetry. EXPRESS Polymer Letters, 2009, 3, 569-578.	2.1	3
57	Transversely Isotropic Hyperelastic Constitutive Models for Plastic Thermoforming Simulation. Key Engineering Materials, 0, 554-557, 1715-1728.	0.4	2
58	Development of Water Blown Bio-Based Thermoplastic Polyurethane Foams. Advanced Materials Research, 0, 584, 361-365.	0.3	1
59	Reliability of Hybrid Inverse Identification Based on Stereo-DIC Measurements to Assess HIPS Hyperelastic Parameters: Case of Isothermal Tensile Loads. Procedia Manufacturing, 2020, 47, 933-939.	1.9	1
60	Modeling of Multilayered Sheets for Thermoforming Applications. Advanced Materials Research, 0, 941-944, 2378-2382.	0.3	0
61	Limit of adhesion coefficient measurement of a unidirectional carbon fabric. Advanced Manufacturing: Polymer and Composites Science, 2015, 1, 152-159.	0.4	0
62	A method of measuring the effective thermal conductivity of thermoplastic foams. AIP Conference Proceedings, 2017, , .	0.4	0
63	Coupling inverse fin method with infrared thermography to determine the effective thermal conductivity of extruded thermoplastic foams. JMST Advances, 2020, 2, 103-110.	1.9	0