Maria LluÃ¯sa Maspoch Ruldua

List of Publications by Year
in descending order

109 papers	3,289 citations	172386 29 h-index	182361 51 g-index
111 all docs	111 docs citations	111 times ranked	3117 citing authors

#	Article	IF	Citations
1	Influence of topographical features on the surface appearance measurement of injection moulded components. Polymer Testing, 2021, 93, 106968.	2.3	3
2	Impact of Titanium Dioxide in the Mechanical Recycling of Post-Consumer Polyethylene Terephthalate Bottle Waste: Tensile and Fracture Behavior. Polymers, 2021, 13, 310.	2.0	10
3	Poly (Lactic Acid)/Ground Tire Rubber Blends Using Peroxide Vulcanization. Polymers, 2021, 13, 1496.	2.0	10
4	Extruded-Calendered Sheets of Fully Recycled PP/Opaque PET Blends: Mechanical and Fracture Behaviour. Polymers, 2021, 13, 2360.	2.0	3
5	Strain induced crystallization in vulcanized natural rubber containing ground tire rubber particles with reinforcement and nucleation abilities. Polymer Testing, 2021, 101, 107313.	2.3	19
6	Structure and Properties of Reactively Extruded Opaque Post-Consumer Recycled PET. Polymers, 2021, 13, 3531.	2.0	17
7	Elastocaloric effect in vulcanized natural rubber and natural/wastes rubber blends. Polymer, 2021, 236, 124309.	1.8	17
8	Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. Polymers, 2021, 13, 3996.	2.0	19
9	Orientation of Polylactic Acidâ€“Chitin Nanocomposite Films via Combined Calendering and Uniaxial Drawing: Effect on Structure, Mechanical, and Thermal Properties. Nanomaterials, 2021, 11, 3308.	1.9	5
10	Multivariate identification of extruded PLA samples from the infrared spectrum. Journal of Materials Science, 2020, 55, 1269-1279.	1.7	10
11	PLA/PA Bio-Blends: Induced Morphology by Extrusion. Polymers, 2020, 12, 10.	2.0	16
12	Heat source and voiding signatures of Mullins damage in filled EPDM. Polymer Testing, 2020, 91, 106838.	2.3	8
13	Effect of the Strain Rate on Damage in Filled EPDM during Single and Cyclic Loadings. Polymers, 2020, 12, 3021.	2.0	9
14	Biphasic polylactide/polyamide 6,10 blends: Influence of composition on polyamide structure and polyester crystallization. Polymer, 2020, 202, 122676.	1.8	11
15	Effect of Chitin Nanocrystals on Crystallization and Properties of Poly(lactic acid)-Based Nanocomposites. Polymers, 2020, 12, 726.	2.0	19
16	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. Carbohydrate Polymers, 2019, 224, 115188.	5.1	20
17	The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and Mechanical Properties of Recycled PP/PET/TiO2 PBNANOs. Polymers, 2019, 11, 1692.	2.0	10
18	Using the small punch test to analyse the influence of ultraviolet radiation on the mechanical behaviour of recycled polyethylene terephthalate. Journal of Strain Analysis for Engineering Design, 2019, 54, 401-407.	1.0	5

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19	Microcellular injection moulding: A comparison between MuCell process and the novel micro-foaming technology IQ Foam. Journal of Materials Processing Technology, 2019, 268, 162-170.	3.1	29
20	Crystallization of triethylâ€citrateâ€plasticized poly(lactic acid) induced by chitin nanocrystals. Journal of Applied Polymer Science, 2019, 136, 47936.	1.3	30
21	Improvement of the replication quality of randomly micro-textured injection-moulding components using a multi-scale surface analysis. Journal of Manufacturing Processes, 2019, 42, 67-81.	2.8	9
22	Mechanical and Barrier Properties Enhancement in Film Extruded Bioâ€Polyamides With Modified Nanoclay. Polymer Composites, 2019, 40, 2617-2628.	2.3	12
23	Multilayer cotton fabric bio-composites based on PLA and PHB copolymer for industrial load carrying applications. Composites Part B: Engineering, 2019, 163, 761-768.	5.9	44
24	Epoxy coupling agent for PLA and PHB copolymer-based cotton fabric bio-composites. Composites Part B: Engineering, 2018, 148, 188-197.	5.9	42
25	Poly(lactic acid) and acrylonitrileâˆ'butadieneâˆ'styrene blends: Influence of adding ABSâˆ'gâˆ'MAH compatibilizer on the kinetics of the thermal degradation. Polymer Testing, 2018, 67, 468-476.	2.3	10
26	Microcellular PP/GF composites: Morphological, mechanical and fracture characterization. Composites Part A: Applied Science and Manufacturing, 2018, 104, 1-13.	3.8	35
27	Multivariable methods applied to FTIR: A powerful technique to highlight architectural changes in poly(lactic acid). Polymer Testing, 2018, 65, 264-269.	2.3	18
28	Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. EXPRESS Polymer Letters, 2018, 12, 569-582.	1.1	25
29	Influence of injection molding parameters on the morphology, mechanical and surface properties of <scp>ABS</scp> foams. Advances in Polymer Technology, 2018, 37, 2707-2720.	0.8	13
30	Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. Thermochimica Acta, 2017, 654, 157-167.	1.2	14
31	PLA/SiO₂ composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. Journal of Applied Polymer Science, 2017, 134, 45367.	1.3	43
32	Microwaveâ€crosslinked bioâ€based starch/clay aerogels. Polymer International, 2016, 65, 899-904.	1.6	27
33	Effect of microcellular foaming on the fracture behavior of ABS polymer. Journal of Applied Polymer Science, 2016, 133, .	1.3	15
34	Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 106-115.	3.8	22
35	Application of the miniature small punch test for the mechanical characterization of polymer materials. Theoretical and Applied Fracture Mechanics, 2016, 86, 78-83.	2.1	19
36	Methane hydrate: shifting the coexistence temperature to higher temperatures with an external electric field. Molecular Simulation, 2016, 42, 1014-1023.	0.9	14

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37	Morphology and Mechanical Characterization of ABS Foamed by Microcellular Injection Molding. Procedia Engineering, 2015, 132, 15-22.	1.2	11
38	The Influence of the Clay Particles on the Mechanical Properties and Fracture Behavior of PLA/oâ€MMT Composite Films. Advances in Polymer Technology, 2015, 34, .	0.8	11
39	Ductile-brittle transition behaviour of PLA/o-MMT films during the physical aging process. EXPRESS Polymer Letters, 2015, 9, 185-195.	1.1	17
40	Kinetics of the thermal degradation of poly(lactic acid) obtained by reactive extrusion: Influence of the addition of montmorillonite nanoparticles. Polymer Testing, 2015, 48, 69-81.	2.3	12
41	Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. Journal of Rheology, 2015, 59, 1191-1227.	1.3	26
42	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54 2014, 101, 52-59.	2.7	22
43	Sheets of branched poly(lactic acid) obtained by one-step reactive extrusionâ€“calendering process: physical aging and fracture behavior. Journal of Materials Science, 2014, 49, 4093-4107.	1.7	30
44	Cheaper membrane materials for microalgae dewatering. Journal of Materials Science, 2014, 49, 7031-7039.	1.7	7
45	Small punch test on the analysis of fracture behaviour of PLA-nanocomposite films. Polymer Testing, 2014, 33, 21-29.	2.3	27
46	Improvement of the thermal stability of branched poly(lactic acid) obtained by reactive extrusion. Polymer Degradation and Stability, 2014, 104, 40-49.	2.7	24
47	Effect of the Strain Rate and Drawing Temperature on the Mechanical Behavior of EVOH and EVOH Composites. Advances in Polymer Technology, 2013, 32, .	0.8	7
48	Effect of the unidirectional drawing on the thermal and mechanical properties of PLA films with different <scp>L</scp>â€isomer content. Journal of Applied Polymer Science, 2013, 127, 2661-2669.	1.3	31
49	Polymer/clay aerogel composites with flame retardant agents: Mechanical, thermal and fire behavior. Materials & Design, 2013, 52, 609-614.	5.1	84
50	Analysis and Thermo-Mechanical Characterization of Mixed Plastic Wastes. Polymer-Plastics Technology and Engineering, 2013, 52, 16-23.	1.9	11
51	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. Polymer Testing, 2013, 32, 937-945.	2.3	47
52	Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendering process: Melt rheology analysis. EXPRESS Polymer Letters, 2013, 7, 304-318.	1.1	66
53	Microcellular Foaming of Layered Double Hydroxideâ^'Polymer Nanocomposites. Industrial & Engineering Chemistry Research, 2011, 50, 5239-5247.	1.8	32
54	Mechanical Properties and Morphology of Multifunctional Polypropylene Foams. Frontiers in Forests and Global Change, 2011, 30, 187-200.	0.6	9

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55	Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. Chemical Engineering Journal, 2011, 178, 451-460.	6.6	69
56	Influence of crystallinity on the fracture toughness of poly(lactic acid)/montmorillonite nanocomposites prepared by twinâ€screw extrusion. Journal of Applied Polymer Science, 2011, 120, 896-905.	1.3	34
57	Fracture behavior of quenched poly(lactic acid). EXPRESS Polymer Letters, 2011, 5, 82-91.	1.1	47
58	Characterization of Highly Oriented Organoclay/Poly(methyl methacrylate) Moulded Nanocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 1304-1312.	0.9	2
59	Effect of the Recycling and Annealing on the Mechanical and Fracture Properties of Poly(Lactic Acid). Journal of Polymers and the Environment, 2010, 18, 654-660.	2.4	49
60	Essential work of fracture testing of PC-rich PET/PC blends with and without transesterification catalysts. Journal of Materials Science, 2010, 45, 2907-2915.	1.7	7
61	Effects of composition and transesterification catalysts on the physico-chemical and dynamic properties of PC/PET blends rich in PC. Journal of Materials Science, 2010, 45, 6623-6633.	1.7	36
62	Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. Polymer Degradation and Stability, 2010, 95, 116-125.	2.7	547
63	Kinetics of the thermal decomposition of processed poly(lactic acid). Polymer Degradation and Stability, 2010, 95, 2508-2514.	2.7	66
64	Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. Polymer Testing, 2010, 29, 984-990.	2.3	16
65	Essential work of fracture analysis of the tearing of a ductile polymer film. Engineering Fracture Mechanics, 2010, 77, 2654-2661.	2.0	27
66	The effect of organoâ€modifier on the structure and properties of poly[ethyleneâ€“(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	1.6	11
67	Influence of processing on the ethylene-vinyl alcohol (EVOH) properties: Application of the successive self-nucleation and annealing (SSA) technique. EXPRESS Polymer Letters, 2010, 4, 153-160.	1.1	40
68	Influence of EMAA compatibilizer on the structure and properties of HDPE/hydrotalcite nanocomposites prepared by melt mixing. Journal of Applied Polymer Science, 2009, 113, 950-958.	1.3	18
69	Fracture behaviour of poly[ethyleneâ€“(vinyl alcohol)]/organoâ€clay composites. Polymer International, 2009, 58, 648-655.	1.6	14
70	The Essential Work of Fracture (EWF) method â€“ Analyzing the Post-Yielding Fracture Mechanics of polymers. Engineering Failure Analysis, 2009, 16, 2604-2617.	1.8	116
71	Influence of femtolaser notch sharpening technique in the determination of essential work of fracture (EWF) parameters. Engineering Fracture Mechanics, 2009, 76, 1247-1254.	2.0	30
72	Fracture characterization of ductile polymers through methods based on load separation. Polymer Testing, 2009, 28, 204-208.	2.3	14

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73	Study of the interface behaviour between MABS/TPU bi-layer structures obtained through over moulding. Materials & Design, 2009, 30, 3979-3988.	5.1	25
74	Use of extensometers on essential work of fracture (EWF) tests. Polymer Testing, 2008, 27, 491-497.	2.3	22
75	Essential work of fracture analysis of glass microsphere-filled polypropylene and polypropylene/poly (ethylene terephthalate-co-isophthalate) blend-matrix composites. Polymer Testing, 2007, 26, 761-769.	2.3	10
76	Evaluation of the fracture behavior of multilayered polypropylene sheets obtained by coextrusion. Polymer Engineering and Science, 2007, 47, 1365-1372.	1.5	6
77	Influence of processing on ethylene propylene block copolymers (II): Fracture behavior. Journal of Applied Polymer Science, 2006, 101, 2714-2724.	1.3	11
78	The Effect of Glass Fibre and a Phosphorus-Containing Flame Retardant on the Flammability of Recycled PET. Macromolecular Symposia, 2005, 221, 175-184.	0.4	7
79	Poly(propylene)/PET/Undecyl Ammonium Montmorillonite Nanocomposites. Synthesis and Characterization. Macromolecular Symposia, 2005, 221, 63-74.	0.4	13
80	Impact characterization of a carbon fiber-epoxy laminate using a nonconservative model. Journal of Applied Polymer Science, 2005, 97, 2256-2263.	1.3	14
81	Determination of essential work of fracture in EPBC sheets obtained by different transformation processes. Journal of Materials Science, 2005, 40, 1967-1974.	1.7	10
82	Uniaxial tensile behavior and thermoforming characteristics of high barrier EVOH-based blends of interest in food packaging. Polymer Engineering and Science, 2004, 44, 598-608.	1.5	29
83	Influence of processing on ethylene-propylene block copolymers: Structure and mechanical behavior. Journal of Applied Polymer Science, 2004, 93, 2866-2878.	1.3	14
84	IndentaciÃ³n por impacto de baja energÃa: modelo completo. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 324-326.	0.9	1
85	Effects of Thickness, Deformation Rate and Energy Partitioning on the Work of Fracture Parameters of uPVC Films. Polymer Bulletin, 2003, 50, 279-286.	1.7	34
86	Effects of injection moulding induced morphology on the fracture behaviour of virgin and recycled polypropylene. Polymer, 2003, 44, 6959-6964.	1.8	29
87	On tearing of ductile polymer films using the essential work of fracture (EWF) method. Acta Materialia, 2003, 51, 4929-4938.	3.8	51
88	Essential Work of Fracture of Injection Moulded Samples of Pet and PET/PC Blends. European Structural Integrity Society, 2003, 32, 77-88.	0.1	0
89	Characterisation of filled and recycled PA6. Macromolecular Symposia, 2003, 194, 295-304.	0.4	24
90	The effect of compatibilizing and coupling agents on the mechanical properties of glass bead filled PP/PET blends. Macromolecular Symposia, 2003, 194, 225-232.	0.4	3

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91	Dynamic mechanical properties of polycarbonate and acrylonitrile-butadiene-styrene copolymer blends. Journal of Applied Polymer Science, 2002, 83, 1507-1516.	1.3	21
92	Glass bead filled polystyrene composites: morphology and fracture. Polymer Bulletin, 2002, 47, 587-594.	1.7	16
93	Fracture behaviour of polypropylene films at different temperatures: fractography and deformation mechanisms studied by SEM. Polymer, 2002, 43, 3083-3091.	1.8	33
94	Characterisation of injected EPBC plaques using the essential work of fracture (EWF) method. Polymer, 2002, 43, 4177-4183.	1.8	45
95	Filled PMMA: mechanical properties and fracture behaviour. Macromolecular Symposia, 2001, 169, 159-164.	0.4	6
96	Polypropylene filled with flame retardant fillers: mechanical and fracture properties. Macromolecular Symposia, 2001, 169, 165-170.	0.4	3
97	Influence of annealing on the microstructural, tensile and fracture properties of polypropylene films. Polymer, 2001, 42, 1697-1705.	1.8	136
98	Effects of recycling on the microstructure and the mechanical properties of isotactic polypropylene. Journal of Materials Science, 2001, 36, 2607-2613.	1.7	160
99	Fracture behaviour of virgin and recycled isotactic polypropylene. Journal of Materials Science, 2001, 36, 5073-5078.	1.7	28
100	Fracture behaviour of polypropylene films at different temperatures: assessment of the EWF parameters. Polymer, 2001, 42, 2665-2674.	1.8	65
101	Essential work of fracture on PET films: influence of the thickness and the orientation. Polymer Testing, 2000, 19, 559-568.	2.3	49
102	On the essential work of fracture method: Energy partitioning of the fracture process in iPP films. Polymer Bulletin, 1999, 42, 101-108.	1.7	57
103	Low-rate fracture behaviour of magnesium hydroxide filled polypropylene block copolymer. Polymer Bulletin, 1998, 41, 615-622.	1.7	21
104	Polycarbonate/acrylonitrile-butadiene-styrene blends: miscibility and interfacial adhesion. Polymer Bulletin, 1998, 41, 721-728.	1.7	19
105	Toughening of unsaturated polyester with rubber particles. Part I: Morphological study. Polymer Engineering and Science, 1998, 38, 282-289.	1.5	16
106	Toughening of unsaturated polyester with rubber particles. Part II: Fracture behavior. Polymer Engineering and Science, 1998, 38, 290-298.	1.5	13
107	The essential work of fracture of a thermoplastic elastomer. Polymer Bulletin, 1997, 39, 249-255.	1.7	20
108	Plane strain essential work of fracture in SENB geometry at low and high strain rates of PC/ABS blends. Polymer Bulletin, 1997, 39, 511-518.	1.7	18

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109	Hydrostatic pressure dependence in tensile and compressive behavior of an <scp>acrylonitrileâ€“butadieneâ€“styrene</scp> copolymer. Journal of Applied Polymer Science, 0, , 52295.	1.3	4