Maria Llusa Maspoch Ruldua

List of Publications by Year in Descending Order

105 papers	2,595 citations	26 h-index	46 g-index
111 ext. papers	2,930 ext. citations	3.8 avg, IF	5.03 L-index

#	Paper	IF	Citations
105	Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. *Polymers*, **2021**, 13,	4.5	3
104	Elastocaloric effect in vulcanized natural rubber and natural/wastes rubber blends. *Polymer*, **2021**, 236, 124309	3.9	1
103	Poly (Lactic Acid)/Ground Tire Rubber Blends Using Peroxide Vulcanization. *Polymers*, **2021**, 13,	4.5	4
102	Influence of topographical features on the surface appearance measurement of injection moulded components. *Polymer Testing*, **2021**, 93, 106968	4.5	0
101	Impact of Titanium Dioxide in the Mechanical Recycling of Post-Consumer Polyethylene Terephthalate Bottle Waste: Tensile and Fracture Behavior. *Polymers*, **2021**, 13,	4.5	1
100	Strain induced crystallization in vulcanized natural rubber containing ground tire rubber particles with reinforcement and nucleation abilities. *Polymer Testing*, **2021**, 101, 107313	4.5	4
99	Effect of the Strain Rate on Damage in Filled EPDM during Single and Cyclic Loadings. *Polymers*, **2020**, 12,	4.5	4
98	Biphasic polylactide/polyamide 6,10 blends: Influence of composition on polyamide structure and polyester crystallization. *Polymer*, **2020**, 202, 122676	3.9	8
97	Effect of Chitin Nanocrystals on Crystallization and Properties of Poly(lactic acid)-Based Nanocomposites. *Polymers*, **2020**, 12,	4.5	6
96	Heat source and voiding signatures of Mullins damage in filled EPDM. *Polymer Testing*, **2020**, 91, 106838	4.5	5
95	Multivariate identification of extruded PLA samples from the infrared spectrum. *Journal of Materials Science*, **2020**, 55, 1269-1279	4.3	5
94	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	1.3	3
93	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	5.3	16
92	Crystallization of triethyl-citrate-plasticized poly(lactic acid) induced by chitin nanocrystals. *Journal of Applied Polymer Science*, **2019**, 136, 47936	2.9	16
91	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	5	6
90	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. *Carbohydrate Polymers*, **2019**, 224, 115188	10.3	8
89	The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and Mechanical Properties of Recycled PP/PET/TiO PBNANOs. *Polymers*, **2019**, 11,	4.5	3

88	PLA/PA Bio-Blends: Induced Morphology by Extrusion. *Polymers*, **2019**, 12,	4.5	5
87	Mechanical and Barrier Properties Enhancement in Film Extruded Bio-Polyamides With Modified Nanoclay. *Polymer Composites*, **2019**, 40, 2617-2628	3	8
86	Multilayer cotton fabric bio-composites based on PLA and PHB copolymer for industrial load carrying applications. *Composites Part B: Engineering*, **2019**, 163, 761-768	10	26
85	Epoxy coupling agent for PLA and PHB copolymer-based cotton fabric bio-composites. *Composites Part B: Engineering*, **2018**, 148, 188-197	10	33
84	Poly(lactic acid) and acrylonitrile□butadiene□styrene blends: Influence of adding ABS□g□MAH compatibilizer on the kinetics of the thermal degradation. *Polymer Testing*, **2018**, 67, 468-476	4.5	5
83	Microcellular PP/GF composites: Morphological, mechanical and fracture characterization. *Composites Part A: Applied Science and Manufacturing*, **2018**, 104, 1-13	8.4	26
82	Influence of injection molding parameters on the morphology, mechanical and surface properties of ABS foams. *Advances in Polymer Technology*, **2018**, 37, 2707-2720	1.9	8
81	Multivariable methods applied to FTIR: A powerful technique to highlight architectural changes in poly(lactic acid). *Polymer Testing*, **2018**, 65, 264-269	4.5	12
80	Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. *EXPRESS Polymer Letters*, **2018**, 12, 569-582	3.4	18
79	Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. *Thermochimica Acta*, **2017**, 654, 157-167	2.9	8
78	PLA/SiO2 composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. *Journal of Applied Polymer Science*, **2017**, 134, 45367	2.9	37
77	Application of the miniature small punch test for the mechanical characterization of polymer materials. *Theoretical and Applied Fracture Mechanics*, **2016**, 86, 78-83	3.7	15
76	Methane hydrate: shifting the coexistence temperature to higher temperatures with an external electric field. *Molecular Simulation*, **2016**, 42, 1014-1023	2	7
75	Microwave-crosslinked bio-based starch/clay aerogels. *Polymer International*, **2016**, 65, 899-904	3.3	17
74	Effect of microcellular foaming on the fracture behavior of ABS polymer. *Journal of Applied Polymer Science*, **2016**, 133, n/a-n/a	2.9	13
73	Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. *Composites Part A: Applied Science and Manufacturing*, **2016**, 88, 106-115	8.4	17
72	Ductile-brittle transition behaviour of PLA/o-MMT films during the physical aging process. *EXPRESS Polymer Letters*, **2015**, 9, 185-195	3.4	12
71	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	4.5	9

70	Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. *Journal of Rheology*, **2015**, 59, 1191-1227	4.1	20
69	Morphology and Mechanical Characterization of ABS Foamed by Microcellular Injection Molding. *Procedia Engineering*, **2015**, 132, 15-22		8
68	The Influence of the Clay Particles on the Mechanical Properties and Fracture Behavior of PLA/o-MMT Composite Films. *Advances in Polymer Technology*, **2015**, 34, n/a-n/a	1.9	4
67	Sheets of branched poly(lactic acid) obtained by one-step reactive extrusion calendering process: physical aging and fracture behavior. *Journal of Materials Science*, **2014**, 49, 4093-4107	4.3	24
66	Cheaper membrane materials for microalgae dewatering. *Journal of Materials Science*, **2014**, 49, 7031-7039	4.3	6
65	Small punch test on the analysis of fracture behaviour of PLA-nanocomposite films. *Polymer Testing* , **2014**, 33, 21-29	4.5	26
64	Improvement of the thermal stability of branched poly(lactic acid) obtained by reactive extrusion. *Polymer Degradation and Stability*, **2014**, 104, 40-49	4.7	21
63	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid)/montmorillonite nanocomposites driven by random scission. *Polymer Degradation and Stability*, **2014**, 101, 52-59	4.7	18
62	Effect of the Strain Rate and Drawing Temperature on the Mechanical Behavior of EVOH and EVOH Composites. *Advances in Polymer Technology*, **2013**, 32, E287-E296	1.9	5
61	Effect of the unidirectional drawing on the thermal and mechanical properties of PLA films with different L-isomer content. *Journal of Applied Polymer Science*, **2013**, 127, 2661-2669	2.9	28
60	Polymer/clay aerogel composites with flame retardant agents: Mechanical, thermal and fire behavior. *Materials & Design*, **2013**, 52, 609-614		66
59	Analysis and Thermo-Mechanical Characterization of Mixed Plastic Wastes. *Polymer-Plastics Technology and Engineering*, **2013**, 52, 16-23		10
58	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	4.5	37
57	Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendering process: Melt rheology analysis. *EXPRESS Polymer Letters*, **2013**, 7, 304-318	3.4	56
56	Microcellular Foaming of Layered Double Hydroxide Polymer Nanocomposites. *Industrial & Engineering Chemistry Research*, **2011**, 50, 5239-5247	3.9	29
55	Mechanical Properties and Morphology of Multifunctional Polypropylene Foams. *Frontiers in Forests and Global Change*, **2011**, 30, 187-200	1.6	9
54	Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. *Chemical Engineering Journal*, **2011**, 178, 451-460	14.7	67
53	Influence of crystallinity on the fracture toughness of poly(lactic acid)/montmorillonite nanocomposites prepared by twin-screw extrusion. *Journal of Applied Polymer Science*, **2011**, 120, 896-905	2.9	30

52	Fracture behavior of quenched poly(lactic acid). *EXPRESS Polymer Letters*, **2011**, 5, 82-91	3.4	43
51	Characterization of highly oriented organoclay/ poly(methyl methacrylate) moulded nanocomposites. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1304-12	1.3	2
50	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	4.5	39
49	Essential work of fracture testing of PC-rich PET/PC blends with and without transesterification catalysts. *Journal of Materials Science*, **2010**, 45, 2907-2915	4.3	6
48	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	4.3	30
47	Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. *Polymer Degradation and Stability*, **2010**, 95, 116-125	4.7	434
46	Kinetics of the thermal decomposition of processed poly(lactic acid). *Polymer Degradation and Stability*, **2010**, 95, 2508-2514	4.7	60
45	Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. *Polymer Testing*, **2010**, 29, 984-990	4.5	13
44	Essential work of fracture analysis of the tearing of a ductile polymer film. *Engineering Fracture Mechanics*, **2010**, 77, 2654-2661	4.2	23
43	The effect of organo-modifier on the structure and properties of poly[ethylene(vinyl alcohol)]/organo-modified montmorillonite composites. *Polymer International*, **2010**, 59, 778-786	3.3	10
42	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	3.4	36
41	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	2.9	17
40	Fracture behaviour of poly[ethylene(vinyl alcohol)]/organo-clay composites. *Polymer International*, **2009**, 58, 648-655	3.3	10
39	The Essential Work of Fracture (EWF) method Analyzing the Post-Yielding Fracture Mechanics of polymers. *Engineering Failure Analysis*, **2009**, 16, 2604-2617	3.2	92
38	Influence of femtolaser notch sharpening technique in the determination of essential work of fracture (EWF) parameters. *Engineering Fracture Mechanics*, **2009**, 76, 1247-1254	4.2	23
37	Fracture characterization of ductile polymers through methods based on load separation. *Polymer Testing*, **2009**, 28, 204-208	4.5	11
36	Study of the interface behaviour between MABS/TPU bi-layer structures obtained through over moulding. *Materials & Design*, **2009**, 30, 3979-3988		17
35	Use of extensometers on essential work of fracture (EWF) tests. *Polymer Testing*, **2008**, 27, 491-497	4.5	21

34	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	4.5	7
33	Evaluation of the fracture behavior of multilayered polypropylene sheets obtained by coextrusion. *Polymer Engineering and Science*, **2007**, 47, 1365-1372	2.3	6
32	Influence of processing on ethylene propylene block copolymers (II): Fracture behavior. *Journal of Applied Polymer Science*, **2006**, 101, 2714-2724	2.9	10
31	The Effect of Glass Fibre and a Phosphorus-Containing Flame Retardant on the Flammability of Recycled PET. *Macromolecular Symposia*, **2005**, 221, 175-184	0.8	7
30	Poly(propylene)/PET/Undecyl Ammonium Montmorillonite Nanocomposites. Synthesis and Characterization. *Macromolecular Symposia*, **2005**, 221, 63-74	0.8	13
29	Impact characterization of a carbon fiber-epoxy laminate using a nonconservative model. *Journal of Applied Polymer Science*, **2005**, 97, 2256-2263	2.9	14
28	Determination of essential work of fracture in EPBC sheets obtained by different transformation processes. *Journal of Materials Science*, **2005**, 40, 1967-1974	4.3	9
27	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	2.3	26
26	Influence of processing on ethylene-propylene block copolymers: Structure and mechanical behavior. *Journal of Applied Polymer Science*, **2004**, 93, 2866-2878	2.9	14
25	The effect of compatibilizing and coupling agents on the mechanical properties of glass bead filled PP/PET blends. *Macromolecular Symposia*, **2003**, 194, 225-232	0.8	2
24	Effects of Thickness, Deformation Rate and Energy Partitioning on the Work of Fracture Parameters of uPVC Films. *Polymer Bulletin*, **2003**, 50, 279-286	2.4	32
23	Effects of injection moulding induced morphology on the fracture behaviour of virgin and recycled polypropylene. *Polymer*, **2003**, 44, 6959-6964	3.9	23
22	On tearing of ductile polymer films using the essential work of fracture (EWF) method. *Acta Materialia*, **2003**, 51, 4929-4938	8.4	44
21	Essential Work of Fracture of Injection Moulded Samples of Pet and PET/PC Blends. *European Structural Integrity Society*, **2003**, 32, 77-88		
20	Characterisation of filled and recycled PA6. *Macromolecular Symposia*, **2003**, 194, 295-304	0.8	18
19	Dynamic mechanical properties of polycarbonate and acrylonitrile-butadiene-styrene copolymer blends. *Journal of Applied Polymer Science*, **2002**, 83, 1507-1516	2.9	17
18	Glass bead filled polystyrene composites: morphology and fracture. *Polymer Bulletin*, **2002**, 47, 587-594	2.4	13
17	Fracture behaviour of polypropylene films at different temperatures: fractography and deformation mechanisms studied by SEM. *Polymer*, **2002**, 43, 3083-3091	3.9	31

16	Characterisation of injected EPBC plaques using the essential work of fracture (EWF) method. *Polymer*, **2002**, 43, 4177-4183	3.9	44
15	Influence of annealing on the microstructural, tensile and fracture properties of polypropylene films. *Polymer*, **2001**, 42, 1697-1705	3.9	126
14	Effects of recycling on the microstructure and the mechanical properties of isotactic polypropylene. *Journal of Materials Science*, **2001**, 36, 2607-2613	4.3	120
13	Fracture behaviour of virgin and recycled isotactic polypropylene. *Journal of Materials Science*, **2001**, 36, 5073-5078	4.3	22
12	Fracture behaviour of polypropylene films at different temperatures: assessment of the EWF parameters. *Polymer*, **2001**, 42, 2665-2674	3.9	64
11	Filled PMMA: mechanical properties and fracture behaviour. *Macromolecular Symposia*, **2001**, 169, 159-164	0.8	5
10	Polypropylene filled with flame retardant fillers: mechanical and fracture properties. *Macromolecular Symposia*, **2001**, 169, 165-170	0.8	2
9	Essential work of fracture on PET films: influence of the thickness and the orientation. *Polymer Testing*, **2000**, 19, 559-568	4.5	47
8	On the essential work of fracture method: Energy partitioning of the fracture process in iPP films. *Polymer Bulletin*, **1999**, 42, 101-108	2.4	52
7	Low-rate fracture behaviour of magnesium hydroxide filled polypropylene block copolymer. *Polymer Bulletin*, **1998**, 41, 615-622	2.4	19
6	Polycarbonate/acrylonitrile-butadiene-styrene blends: miscibility and interfacial adhesion. *Polymer Bulletin*, **1998**, 41, 721-728	2.4	17
5	Toughening of unsaturated polyester with rubber particles. Part I: Morphological study. *Polymer Engineering and Science*, **1998**, 38, 282-289	2.3	15
4	Toughening of unsaturated polyester with rubber particles. Part II: Fracture behavior. *Polymer Engineering and Science*, **1998**, 38, 290-298	2.3	13
3	The essential work of fracture of a thermoplastic elastomer. *Polymer Bulletin*, **1997**, 39, 249-255	2.4	16
2	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	2.4	18
1	Hydrostatic pressure dependence in tensile and compressive behavior of an acrylonitrile□butadiene□styrene copolymer. *Journal of Applied Polymer Science*,52295	2.9	0