

Maria Llusa MasPOCH Ruldua

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ext. papers

2,930
ext. citations

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L-index

#	Paper	IF	Citations
105	Processing of poly(lactic acid): Characterization of chemical structure, thermal stability and mechanical properties. <i>Polymer Degradation and Stability</i> , 2010 , 95, 116-125	4.7	434
104	Influence of annealing on the microstructural, tensile and fracture properties of polypropylene films. <i>Polymer</i> , 2001 , 42, 1697-1705	3.9	126
103	Effects of recycling on the microstructure and the mechanical properties of isotactic polypropylene. <i>Journal of Materials Science</i> , 2001 , 36, 2607-2613	4.3	120
102	The Essential Work of Fracture (EWF) method [Analyzing the Post-Yielding Fracture Mechanics of polymers. <i>Engineering Failure Analysis</i> , 2009 , 16, 2604-2617	3.2	92
101	Processing of poly(lactic acid)/organomontmorillonite nanocomposites: Microstructure, thermal stability and kinetics of the thermal decomposition. <i>Chemical Engineering Journal</i> , 2011 , 178, 451-460	14.7	67
100	Polymer/clay aerogel composites with flame retardant agents: Mechanical, thermal and fire behavior. <i>Materials & Design</i> , 2013 , 52, 609-614		66
99	Fracture behaviour of polypropylene films at different temperatures: assessment of the EWF parameters. <i>Polymer</i> , 2001 , 42, 2665-2674	3.9	64
98	Kinetics of the thermal decomposition of processed poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2010 , 95, 2508-2514	4.7	60
97	Sheets of branched poly(lactic acid) obtained by one step reactive extrusion calendaring process: Melt rheology analysis. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 304-318	3.4	56
96	On the essential work of fracture method: Energy partitioning of the fracture process in IPP films. <i>Polymer Bulletin</i> , 1999 , 42, 101-108	2.4	52
95	Essential work of fracture on PET films: influence of the thickness and the orientation. <i>Polymer Testing</i> , 2000 , 19, 559-568	4.5	47
94	Characterisation of injected EPBC plaques using the essential work of fracture (EWF) method. <i>Polymer</i> , 2002 , 43, 4177-4183	3.9	44
93	On tearing of ductile polymer films using the essential work of fracture (EWF) method. <i>Acta Materialia</i> , 2003 , 51, 4929-4938	8.4	44
92	Fracture behavior of quenched poly(lactic acid). <i>EXPRESS Polymer Letters</i> , 2011 , 5, 82-91	3.4	43
91	Effect of the Recycling and Annealing on the Mechanical and Fracture Properties of Poly(Lactic Acid). <i>Journal of Polymers and the Environment</i> , 2010 , 18, 654-660	4.5	39
90	PLA/SiO ₂ composites: Influence of the filler modifications on the morphology, crystallization behavior, and mechanical properties. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45367	2.9	37
89	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. <i>Polymer Testing</i> , 2013 , 32, 937-945	4.5	37

88	Influence of processing on the ethylene-vinyl alcohol (EVOH) properties: Application of the successive self-nucleation and annealing (SSA) technique. <i>EXPRESS Polymer Letters</i> , 2010 , 4, 153-160	3.4	36
87	Epoxy coupling agent for PLA and PHB copolymer-based cotton fabric bio-composites. <i>Composites Part B: Engineering</i> , 2018 , 148, 188-197	10	33
86	Effects of Thickness, Deformation Rate and Energy Partitioning on the Work of Fracture Parameters of uPVC Films. <i>Polymer Bulletin</i> , 2003 , 50, 279-286	2.4	32
85	Fracture behaviour of polypropylene films at different temperatures: fractography and deformation mechanisms studied by SEM. <i>Polymer</i> , 2002 , 43, 3083-3091	3.9	31
84	Influence of crystallinity on the fracture toughness of poly(lactic acid)/montmorillonite nanocomposites prepared by twin-screw extrusion. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 896-905	2.9	30
83	Effects of composition and transesterification catalysts on the physico-chemical and dynamic properties of PC/PET blends rich in PC. <i>Journal of Materials Science</i> , 2010 , 45, 6623-6633	4.3	30
82	Microcellular Foaming of Layered Double Hydroxide Polymer Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 5239-5247	3.9	29
81	Effect of the unidirectional drawing on the thermal and mechanical properties of PLA films with different L-isomer content. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 2661-2669	2.9	28
80	Microcellular PP/GF composites: Morphological, mechanical and fracture characterization. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 104, 1-13	8.4	26
79	Small punch test on the analysis of fracture behaviour of PLA-nanocomposite films. <i>Polymer Testing</i> , 2014 , 33, 21-29	4.5	26
78	Uniaxial tensile behavior and thermoforming characteristics of high barrier EVOH-based blends of interest in food packaging. <i>Polymer Engineering and Science</i> , 2004 , 44, 598-608	2.3	26
77	Multilayer cotton fabric bio-composites based on PLA and PHB copolymer for industrial load carrying applications. <i>Composites Part B: Engineering</i> , 2019 , 163, 761-768	10	26
76	Sheets of branched poly(lactic acid) obtained by one-step reactive extrusion/calendering process: physical aging and fracture behavior. <i>Journal of Materials Science</i> , 2014 , 49, 4093-4107	4.3	24
75	Influence of femtolasers notch sharpening technique in the determination of essential work of fracture (EWF) parameters. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 1247-1254	4.2	23
74	Essential work of fracture analysis of the tearing of a ductile polymer film. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 2654-2661	4.2	23
73	Effects of injection moulding induced morphology on the fracture behaviour of virgin and recycled polypropylene. <i>Polymer</i> , 2003 , 44, 6959-6964	3.9	23
72	Fracture behaviour of virgin and recycled isotactic polypropylene. <i>Journal of Materials Science</i> , 2001 , 36, 5073-5078	4.3	22
71	Improvement of the thermal stability of branched poly(lactic acid) obtained by reactive extrusion. <i>Polymer Degradation and Stability</i> , 2014 , 104, 40-49	4.7	21

70	Use of extensometers on essential work of fracture (EWF) tests. <i>Polymer Testing</i> , 2008 , 27, 491-497	4.5	21
69	Using viscoelastic properties to quantitatively estimate the amount of modified poly(lactic acid) chains through reactive extrusion. <i>Journal of Rheology</i> , 2015 , 59, 1191-1227	4.1	20
68	Low-rate fracture behaviour of magnesium hydroxide filled polypropylene block copolymer. <i>Polymer Bulletin</i> , 1998 , 41, 615-622	2.4	19
67	Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid)/montmorillonite nanocomposites driven by random scission. <i>Polymer Degradation and Stability</i> , 2014 , 101, 52-59	4.7	18
66	Plane strain essential work of fracture in SENB geometry at low and high strain rates of PC/ABS blends. <i>Polymer Bulletin</i> , 1997 , 39, 511-518	2.4	18
65	Characterisation of filled and recycled PA6. <i>Macromolecular Symposia</i> , 2003 , 194, 295-304	0.8	18
64	Effect of the viscosity ratio on the PLA/PA10.10 bioblends morphology and mechanical properties. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 569-582	3.4	18
63	Influence of EMAA compatibilizer on the structure and properties of HDPE/hydroxycitric acid nanocomposites prepared by melt mixing. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 950-958	2.9	17
62	Study of the interface behaviour between MABS/TPU bi-layer structures obtained through over moulding. <i>Materials & Design</i> , 2009 , 30, 3979-3988		17
61	Polycarbonate/acrylonitrile-butadiene-styrene blends: miscibility and interfacial adhesion. <i>Polymer Bulletin</i> , 1998 , 41, 721-728	2.4	17
60	Dynamic mechanical properties of polycarbonate and acrylonitrile-butadiene-styrene copolymer blends. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1507-1516	2.9	17
59	Microwave-crosslinked bio-based starch/clay aerogels. <i>Polymer International</i> , 2016 , 65, 899-904	3.3	17
58	Reactive extrusion: A useful process to manufacture structurally modified PLA/o-MMT composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 88, 106-115	8.4	17
57	Microcellular injection moulding: A comparison between MuCell process and the novel micro-foaming technology IQ Foam. <i>Journal of Materials Processing Technology</i> , 2019 , 268, 162-170	5.3	16
56	Crystallization of triethyl-citrate-plasticized poly(lactic acid) induced by chitin nanocrystals. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47936	2.9	16
55	The essential work of fracture of a thermoplastic elastomer. <i>Polymer Bulletin</i> , 1997 , 39, 249-255	2.4	16
54	Application of the miniature small punch test for the mechanical characterization of polymer materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 86, 78-83	3.7	15
53	Toughening of unsaturated polyester with rubber particles. Part I: Morphological study. <i>Polymer Engineering and Science</i> , 1998 , 38, 282-289	2.3	15

52	Influence of processing on ethylene-propylene block copolymers: Structure and mechanical behavior. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2866-2878	2.9	14
51	Impact characterization of a carbon fiber-epoxy laminate using a nonconservative model. <i>Journal of Applied Polymer Science</i> , 2005 , 97, 2256-2263	2.9	14
50	Fracture behaviour of de-aged poly(lactic acid) assessed by essential work of fracture and J-Integral methods. <i>Polymer Testing</i> , 2010 , 29, 984-990	4.5	13
49	Toughening of unsaturated polyester with rubber particles. Part II: Fracture behavior. <i>Polymer Engineering and Science</i> , 1998 , 38, 290-298	2.3	13
48	Glass bead filled polystyrene composites: morphology and fracture. <i>Polymer Bulletin</i> , 2002 , 47, 587-594	2.4	13
47	Poly(propylene)/PET/Undecyl Ammonium Montmorillonite Nanocomposites. Synthesis and Characterization. <i>Macromolecular Symposia</i> , 2005 , 221, 63-74	0.8	13
46	Effect of microcellular foaming on the fracture behavior of ABS polymer. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	13
45	Ductile-brittle transition behaviour of PLA/o-MMT films during the physical aging process. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 185-195	3.4	12
44	Multivariable methods applied to FTIR: A powerful technique to highlight architectural changes in poly(lactic acid). <i>Polymer Testing</i> , 2018 , 65, 264-269	4.5	12
43	Fracture characterization of ductile polymers through methods based on load separation. <i>Polymer Testing</i> , 2009 , 28, 204-208	4.5	11
42	Analysis and Thermo-Mechanical Characterization of Mixed Plastic Wastes. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 16-23		10
41	Fracture behaviour of poly[ethylene(vinyl alcohol)]/organo-clay composites. <i>Polymer International</i> , 2009 , 58, 648-655	3.3	10
40	The effect of organo-modifier on the structure and properties of poly[ethylene(vinyl alcohol)]/organo-modified montmorillonite composites. <i>Polymer International</i> , 2010 , 59, 778-786	3.3	10
39	Influence of processing on ethylene propylene block copolymers (II): Fracture behavior. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 2714-2724	2.9	10
38	Kinetics of the thermal degradation of poly(lactic acid) obtained by reactive extrusion: Influence of the addition of montmorillonite nanoparticles. <i>Polymer Testing</i> , 2015 , 48, 69-81	4.5	9
37	Mechanical Properties and Morphology of Multifunctional Polypropylene Foams. <i>Frontiers in Forests and Global Change</i> , 2011 , 30, 187-200	1.6	9
36	Determination of essential work of fracture in EPBC sheets obtained by different transformation processes. <i>Journal of Materials Science</i> , 2005 , 40, 1967-1974	4.3	9
35	Thermal degradation of poly(lactic acid) and acrylonitrile-butadiene-styrene bioblends: Elucidation of reaction mechanisms. <i>Thermochimica Acta</i> , 2017 , 654, 157-167	2.9	8

34	Biphasic polylactide/polyamide 6,10 blends: Influence of composition on polyamide structure and polyester crystallization. <i>Polymer</i> , 2020 , 202, 122676	3.9	8
33	Influence of injection molding parameters on the morphology, mechanical and surface properties of ABS foams. <i>Advances in Polymer Technology</i> , 2018 , 37, 2707-2720	1.9	8
32	Melt-processing of cellulose nanofibril/polylactide bionanocomposites via a sustainable polyethylene glycol-based carrier system. <i>Carbohydrate Polymers</i> , 2019 , 224, 115188	10.3	8
31	Morphology and Mechanical Characterization of ABS Foamed by Microcellular Injection Molding. <i>Procedia Engineering</i> , 2015 , 132, 15-22		8
30	Mechanical and Barrier Properties Enhancement in Film Extruded Bio-Polyamides With Modified Nanoclay. <i>Polymer Composites</i> , 2019 , 40, 2617-2628	3	8
29	Methane hydrate: shifting the coexistence temperature to higher temperatures with an external electric field. <i>Molecular Simulation</i> , 2016 , 42, 1014-1023	2	7
28	Essential work of fracture analysis of glass microsphere-filled polypropylene and polypropylene/poly (ethylene terephthalate-co-isophthalate) blend-matrix composites. <i>Polymer Testing</i> , 2007 , 26, 761-769	4.5	7
27	The Effect of Glass Fibre and a Phosphorus-Containing Flame Retardant on the Flammability of Recycled PET. <i>Macromolecular Symposia</i> , 2005 , 221, 175-184	0.8	7
26	Improvement of the replication quality of randomly micro-textured injection-moulding components using a multi-scale surface analysis. <i>Journal of Manufacturing Processes</i> , 2019 , 42, 67-81	5	6
25	Effect of Chitin Nanocrystals on Crystallization and Properties of Poly(lactic acid)-Based Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	6
24	Cheaper membrane materials for microalgae dewatering. <i>Journal of Materials Science</i> , 2014 , 49, 7031-7039	4.9	6
23	Essential work of fracture testing of PC-rich PET/PC blends with and without transesterification catalysts. <i>Journal of Materials Science</i> , 2010 , 45, 2907-2915	4.3	6
22	Evaluation of the fracture behavior of multilayered polypropylene sheets obtained by coextrusion. <i>Polymer Engineering and Science</i> , 2007 , 47, 1365-1372	2.3	6
21	Poly(lactic acid) and acrylonitrileButadieneStyrene blends: Influence of adding ABS/MAH compatibilizer on the kinetics of the thermal degradation. <i>Polymer Testing</i> , 2018 , 67, 468-476	4.5	5
20	Effect of the Strain Rate and Drawing Temperature on the Mechanical Behavior of EVOH and EVOH Composites. <i>Advances in Polymer Technology</i> , 2013 , 32, E287-E296	1.9	5
19	Filled PMMA: mechanical properties and fracture behaviour. <i>Macromolecular Symposia</i> , 2001 , 169, 159-168	4.8	5
18	PLA/PA Bio-Blends: Induced Morphology by Extrusion. <i>Polymers</i> , 2019 , 12,	4.5	5
17	Heat source and voiding signatures of Mullins damage in filled EPDM. <i>Polymer Testing</i> , 2020 , 91, 106838	4.5	5

16	Multivariate identification of extruded PLA samples from the infrared spectrum. <i>Journal of Materials Science</i> , 2020 , 55, 1269-1279	4.3	5
15	Effect of the Strain Rate on Damage in Filled EPDM during Single and Cyclic Loadings. <i>Polymers</i> , 2020 , 12,	4.5	4
14	The Influence of the Clay Particles on the Mechanical Properties and Fracture Behavior of PLA/o-MMT Composite Films. <i>Advances in Polymer Technology</i> , 2015 , 34, n/a-n/a	1.9	4
13	Poly (Lactic Acid)/Ground Tire Rubber Blends Using Peroxide Vulcanization. <i>Polymers</i> , 2021 , 13,	4.5	4
12	Strain induced crystallization in vulcanized natural rubber containing ground tire rubber particles with reinforcement and nucleation abilities. <i>Polymer Testing</i> , 2021 , 101, 107313	4.5	4
11	Using the small punch test to analyse the influence of ultraviolet radiation on the mechanical behaviour of recycled polyethylene terephthalate. <i>Journal of Strain Analysis for Engineering Design</i> , 2019 , 54, 401-407	1.3	3
10	The Effect of Titanium Dioxide Surface Modification on the Dispersion, Morphology, and Mechanical Properties of Recycled PP/PET/TiO PBNANOs. <i>Polymers</i> , 2019 , 11,	4.5	3
9	Kinetics of the Thermal Degradation of Poly(lactic acid) and Polyamide Bioblends. <i>Polymers</i> , 2021 , 13,	4.5	3
8	Characterization of highly oriented organoclay/ poly(methyl methacrylate) moulded nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 1304-12	1.3	2
7	The effect of compatibilizing and coupling agents on the mechanical properties of glass bead filled PP/PET blends. <i>Macromolecular Symposia</i> , 2003 , 194, 225-232	0.8	2
6	Polypropylene filled with flame retardant fillers: mechanical and fracture properties. <i>Macromolecular Symposia</i> , 2001 , 169, 165-170	0.8	2
5	Elastocaloric effect in vulcanized natural rubber and natural/wastes rubber blends. <i>Polymer</i> , 2021 , 236, 124309	3.9	1
4	Impact of Titanium Dioxide in the Mechanical Recycling of Post-Consumer Polyethylene Terephthalate Bottle Waste: Tensile and Fracture Behavior. <i>Polymers</i> , 2021 , 13,	4.5	1
3	Influence of topographical features on the surface appearance measurement of injection moulded components. <i>Polymer Testing</i> , 2021 , 93, 106968	4.5	0
2	Hydrostatic pressure dependence in tensile and compressive behavior of an acrylonitrileButadieneButyrene copolymer. <i>Journal of Applied Polymer Science</i> , 52295	2.9	0
1	Essential Work of Fracture of Injection Moulded Samples of Pet and PET/PC Blends. <i>European Structural Integrity Society</i> , 2003 , 32, 77-88		