JoaquÃ-n MartÃ-nez Urreaga

List of Publications by Year
in descending order

55 papers	1,151 citations	361413 20 h-index	414414 32 g-index
55 all docs	55 docs citations	55 times ranked	1246 citing authors

#	Article	IF	Citations
1	Comparative spectroscopic study of the modification of cellulosic materials with different coupling agents. Journal of Applied Polymer Science, 2000, 75, 256-266.	2.6	71
2	Chemical interactions and yellowing in chitosan-treated cellulose. European Polymer Journal, 2006, 42, 2606-2616.	5.4	69
3	Effect of simulated mechanical recycling processes on the structure and properties of poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overloc	7.8	66
4	Mechanical recycling of poly(lactic acid): Evaluation of a chain extender and a peroxide as additives for upgrading the recycled plastic.. Journal of Cleaner Production, 2019, 219, 46-56.	9.3	56
5	Evaluation of the Technical Viability of Distributed Mechanical Recycling of PLA 3D Printing Wastes. Polymers, 2021, 13, 1247.	4.5	50
6	Effect of different mechanical recycling processes on the hydrolytic degradation of poly(l-lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	5.8	47
7	Sustainable eco-composites obtained from agricultural and urban waste plastic blends and residual cellulose fibers. Journal of Cleaner Production, 2015, 108, 377-384.	9.3	44
8	Photodegradation characterization and heterogeneity evaluation of the exposed and unexposed faces of stabilized and unstabilized LDPE films. Materials and Design, 2016, 111, 279-290.	7.0	44
9	Use of residual agricultural plastics and cellulose fibers for obtaining sustainable eco-composites prevents waste generation. Journal of Cleaner Production, 2014, 83, 228-237.	9.3	39
10	Water-induced structural changes in poly(lactic acid) and PLLA-clay nanocomposites. Polymer, 2016, 107, 211-222.	3.8	37
11	Biodegradable Nanocomposites Developed from PLA/PCL Blends and Silk Fibroin Nanoparticles: Study on the Microstructure, Thermal Behavior, Crystallinity and Performance. Journal of Polymers and the Environment, 2020, 28, 1252-1264.	5.0	37
12	Thermo and photo-oxidation of functionalized metallocene high density polyethylene: Effect of hydrophilic groups. Polymer Degradation and Stability, 2015, 111, 78-88.	5.8	36
13	Abrasion resistance in the Tumble test of solâ€“gel hybrid coatings for ophthalmic plastic lenses. Materials Letters, 2000, 45, 293-297.	2.6	33
14	Effects of coupling agents on the oxidation and darkening of cellulosic materials used as reinforcements for thermoplastic matrices in composites. Polymer Engineering and Science, 2000, 40, 407-417.	3.1	30
15	Spectroscopic study of the modification of cellulose with polyethylenimines. Journal of Applied Polymer Science, 2004, 92, 2196-2202.	2.6	29
16	Modification of cellulose with amino compounds: A fluorescence study. Carbohydrate Polymers, 2007, 69, 14-19.	10.2	27
17	Novel polypropyleneâ€“cellulose composites using polyethylenimine as coupling agent. Composites Part A: Applied Science and Manufacturing, 2007, 38, 2005-2012.	7.6	26
18	Effect of different coupling agents on the browning of celluloseâ€“polypropylene composites during melt processing. Polymer Degradation and Stability, 2010, 95, 201-206.	5.8	25

#	Article	IF	Citations
19	Influence of addition of organic fillers on the properties of mechanically recycled PLA. Environmental Science and Pollution Research, 2021, 28, 24291-24304.	5.3	25
20	Effects of Aging and Different Mechanical Recycling Processes on the Structure and Properties of Poly(lactic acid)-clay Nanocomposites. Journal of Polymers and the Environment, 2018, 26, 2142-2152.	5.0	20
21	Study of the effects of the reaction conditions on the modification of clays with polyelectrolytes and silanes. Journal of Colloid and Interface Science, 2010, 342, 185-191.	9.4	18
22	Polymer degradation during the melt processing of clay reinforced polycarbonate nanocomposites. Polymer Degradation and Stability, 2013, 98, 1110-1117.	5.8	18
23	Thermal and morphological characteristics of polypropylene/smectic polyester blends. Polymer, 2007, 48, 3137-3147.	3.8	17
24	Comparison of the effects of polyethylenimine and maleated polypropylene coupling agents on the properties of cellulose-reinforced polypropylene composites. Journal of Applied Polymer Science, 2008, 110, 2555-2562.	2.6	17
25	Fluorescence labeling of high density polyethylene for identification and separation of selected containers in plastics waste streams. Comparison of thermal and photochemical stability of different fluorescent tracers. Materials Today Communications, 2017, 12, 125-132.	1.9	17
26	Effect of solid-state polymerization on the structure and properties of mechanically recycled poly(lactic acid). Polymer Degradation and Stability, 2020, 171, 109045.	5.8	16
27	A Comparison of the Effect of Silk Fibroin Nanoparticles and Microfibers on the Reprocessing and Biodegradability of PLA/PCL Blends. Journal of Polymers and the Environment, 2021, 29, 2585-2597.	5.0	16
28	Photooxidation of cellulose treated with amino compounds. Polymer Degradation and Stability, 2006, 91, 2053-2060.	5.8	15
29	Amino-Modified Halloysite Nanotubes to Reduce Polymer Degradation and Improve the Performance of Mechanically Recycled Poly(lactic acid). Journal of Polymers and the Environment, 2018, 26, 4046-4055.	5.0	15
30	The effect of silk fibroin nanoparticles on the morphology, rheology, dynamic mechanical properties, and toughness of poly(lactic acid)/poly(Ìµâ€caprolactone) nanocomposite. Journal of Applied Polymer Science, 2020, 137, 49232.	2.6	15
31	Discoloration of celluloses treated with polyethylenimines. Polymer Degradation and Stability, 2004, 85, 697-703.	5.8	14
32	Valorization of poly(lactic acid) wastes via mechanical recycling: Improvement of the properties of the recycled polymer. Waste Management and Research, 2019, 37, 135-141.	3.9	14
33	Discoloration of celluloses treated with amino compounds. Polymer Degradation and Stability, 2006, 91, 886-893.	5.8	13
34	Effect of lignocellulosic Nanoparticles Extracted from Yerba Mate (Ilex paraguariensis) on the Structural, Thermal, Optical and Barrier Properties of Mechanically Recycled Poly(lactic acid). Polymers, 2020, 12, 1690.	4.5	13
35	Solvent effects in the reaction of lucigenin with basic hydrogen peroxide: Chemiluminescence spectra in mixed polar solvents. Monatshefte FÃ¼r Chemie, 1991, 122, 697-704.	1.8	12
36	Thermal Degradation of Polysiloxane Coatings on E-Glass Fiber. A FTIR Study. Spectroscopy Letters, 1992, 25, 1121-1129.	1.0	12

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37	Application of ftir spectroscopy to the study of curing of glass reinforced polyester composites. Macromolecular Symposia, 1995, 94, 273-282.	0.7	11
38	Thermal and FTIR study of E-glass short fiber functionalization with chloromethyldimethylchlorosilane. Journal of Colloid and Interface Science, 1991, 142, 111-115.	9.4	10
39	Mechanical characterisation of virgin and recovered polycarbonate based nanocomposites by means of Depth Sensing Indentation measurements. European Polymer Journal, 2014, 55, 1-8.	5.4	10
40	Enhancement of mechanical properties of waste-sourced biocomposites through peroxide induced crosslinking. Composites Part A: Applied Science and Manufacturing, 2016, 80, 285-291.	7.6	10
41	Two Examples of Deterministic versus Stochastic Modeling of Chemical Reactions. Journal of Chemical Education, 2003, 80, 1488.	2.3	8
42	Fourier Transform Infrared Spectroscopy study of polymorphism in propylene-co-1-pentene copolymers: Trigonal form identification. European Polymer Journal, 2015, 63, 227-236.	5.4	7
43	Effect of Yerba Mate and Silk Fibroin Nanoparticles on the Migration Properties in Ethanolic Food Simulants and Composting Disintegrability of Recycled PLA Nanocomposites. Polymers, 2021, 13, 1925.	4.5	7
44	Thermal and fourier transform-infrared study of E-glass short-fiber functionalization with methylvinyldichlorosilane and vinyltrichlorosilane. Journal of Colloid and Interface Science, 1992, 149, 34-39.	9.4	6
45	Ultraviolet Spectroscopic Study of the Cellulose Functionalization with Silanes. Spectroscopy Letters, 1999, 32, 993-1003.	1.0	6
46	Solvent effects on chemiluminescence from the hydrogen peroxide-lucigenin reaction: Kinetics of light emission in mixed polar solvents. Monatshefte FÃ¼r Chemie, 1991, 122, 907-913.	1.8	5
47	Effects of previous leaching with hydrochloric acid of E-glass short fibre on the fibre reaction with chlorosilanes. Materials Letters, 1992, 12, 415-418.	2.6	4
48	Spectral evolution of the oxidation reaction-with alkaline hydrogen peroxide of lucigenin. Journal of Molecular Structure, 1986, 143, 521-524.	3.6	3
49	Tube shelters from agricultural plastic waste: An example of circular economy. Journal of Cleaner Production, 2020, 268, 122401.	9.3	3
50	Coupling of infrared spectroscopy and thermal analysis in the study of glass fiber coating processes. Journal of Molecular Structure, 1993, 294, 5-8.	3.6	2
51	Clayâ€induced degradation during the melt reprocessing of waste polycarbonate. Journal of Applied Polymer Science, 2014, 131, .	2.6	2
52	The Rubrene Character in Chemiluminescent Reactions Studied by V-UV Absorption Spectroscopy. Spectroscopy Letters, 1985, 18, 463-472.	1.0	1
53	FTIR Study on Chemical Modification of E-Glass Short Fiber with Tert-Butyldiphenylchlorosilane. Spectroscopy Letters, 1991, 24, 625-634.	1.0	1
54	Polymorphism in a metallocenic isotactic polypropylene as revealed by means of FTIR spectroscopy: Influence of the processing conditions. Journal of Applied Polymer Science, 2011, 121, 1023-1031.	2.6	1

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55	Degradation of a mechanically recycled polylactide/halloysite nanocomposite in an ethanolic food simulant. Journal of Applied Research in Technology & Engineering, 2021, 2, 63.	0.8	1