Francisco Javier CaÃ±avate

List of Publications by Year
in descending order

39 papers	1,302 citations	361413 20 h-index	345221 36 g-index
42 all docs	42 docs citations	42 times ranked	1289 citing authors

#	Article	IF	Citations
1	GTR/Thermoplastics Blends: How Do Interfacial Interactions Govern Processing and Physico-Mechanical Properties?. Materials, 2022, 15, 841.	2.9	13
2	Circular Economy Assessment in Recycling of LLDPE Bags According to European Resolution, Thermal and Structural Characterization. Polymers, 2022, 14, 754.	4.5	2
3	Towards Circular Economy by the Valorization of Different Waste Subproducts through Their Incorporation in Composite Materials: Ground Tire Rubber and Chicken Feathers. Polymers, 2022, 14, 1090.	4.5	4
4	Assessment of the devulcanization process of EPDM waste from roofing systems by combined thermomechanical/microwave procedures. Polymer Degradation and Stability, 2021, 183, 109450.	5.8	21
5	Isothermal Vulcanization and Non-Isothermal Degradation Kinetics of XNBR/Epoxy/XNBR-g-Halloysite Nanotubes (HNT) Nanocomposites. Materials, 2021, 14, 2872.	2.9	10
6	GTR/NBR/Silica Composites Performance Properties as a Function of Curing System: Sulfur versus Peroxides. Materials, 2021, 14, 5345.	2.9	5
7	Reactive Processing and Functionalization of Ground Tire Rubber. , 2020, , 43-63.		0
8	Reactive Sintering of Ground Tire Rubber (GTR) Modified by a Trans-Polyoctenamer Rubber and Curing Additives. Polymers, 2020, 12, 3018.	4.5	20
9	Reclaimed Rubber/Poly(Îµ-caprolactone) Blends: Structure, Mechanical, and Thermal Properties. Polymers, 2020, 12, 1204.	4.5	14
10	Investigating the Impact of Curing System on Structure-Property Relationship of Natural Rubber Modified with Brewery By-Product and Ground Tire Rubber. Polymers, 2020, 12, 545.	4.5	27
11	Environmental impact assessment of sound absorbing nonwovens based on chicken feathers waste. Resources, Conservation and Recycling, 2019, 149, 489-499.	10.8	18
12	Preliminary Investigation on Auto-Thermal Extrusion of Ground Tire Rubber. Materials, 2019, 12, 2090.	2.9	23
13	Curing epoxy with ethylenediaminetetraacetic acid (EDTA) surface-functionalized Co Fe3-O4 magnetic nanoparticles. Progress in Organic Coatings, 2019, 136, 105248.	3.9	14
14	Microwave treatment in waste rubber recycling â€“ recent advances and limitations. EXPRESS Polymer Letters, 2019, 13, 565-588.	2.1	79
15	Structural and physico-mechanical properties of natural rubber/GTR composites devulcanized by microwaves: Influence of GTR source and irradiation time. Journal of Composite Materials, 2018, 52, 3099-3108.	2.4	50
16	Effect of chemical treatments and additives on properties of chicken feathers thermoplastic biocomposites. Journal of Composite Materials, 2018, 52, 3637-3653.	2.4	14
17	Synergistic Effects of Bitumen Plasticization and Microwave Treatment on Short-Term Devulcanization of Ground Tire Rubber. Polymers, 2018, 10, 1265.	4.5	26
18	CHAPTER 2. Surface Treatment of Rubber Waste. RSC Green Chemistry, 2018, , 24-55.	0.1	2

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19	Changes in Properties of Cement and Lime Mortars When Incorporating Fibers from End-of-Life Tires. Fibers, 2016, 4, 7.	4.0	17
20	FTIR spectroscopic and thermogravimetric characterization of ground tyre rubber devulcanized by microwave treatment. Polymer Testing, 2016, 52, 200-208.	4.8	91
21	Properties and optimal manufacturing conditions of chicken feathers/poly(lactic acid) biocomposites. Journal of Composite Materials, 2016, 50, 1671-1683.	2.4	13
22	Properties and optimal manufacturing conditions of chicken feathers thermoplastic biocomposites. Journal of Composite Materials, 2015, 49, 295-308.	2.4	5
23	Acoustic and mechanical properties of recycled polyvinyl chloride/ground tyre rubber composites. Journal of Composite Materials, 2014, 48, 1061-1069.	2.4	28
24	Biocomposites using waste whole chicken feathers and thermoplastic matrices. Journal of Reinforced Plastics and Composites, 2013, 32, 1419-1429.	3.1	20
25	Thermoplastic elastomers including ground tyre rubber in a thermoplastic matrix. World Journal of Engineering, 2011, 8, 165-170.	1.6	0
26	Humanitarian Engineering in Spain: Ingenieros sin Fronteras. IEEE Technology and Society Magazine, 2010, 29, 12-19.	0.8	3
27	Properties of Regenerated Cellulose Lyocell Fiber-Reinforced Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 359-371.	3.1	30
28	The Use of Waxes and Wetting Additives to Improve Compatibility Between HDPE and Ground Tyre Rubber. Journal of Composite Materials, 2010, 44, 1233-1245.	2.4	24
29	Effect of the particle size and acid pretreatments on compatibility and properties of recycled HDPE plastic bottles filled with ground tyre powder. Journal of Applied Polymer Science, 2009, 112, 1882-1890.	2.6	46
30	Study of the influence of IPPD on thermoâ€oxidation process of elastomeric hose. Journal of Applied Polymer Science, 2009, 114, 2011-2018.	2.6	23
31	Composites reinforced with reused tyres: Surface oxidant treatment to improve the interfacial compatibility. Composites Part A: Applied Science and Manufacturing, 2007, 38, 44-50.	7.6	115
32	Structural and mechanical studies on modified reused tyres composites. European Polymer Journal, 2006, 42, 2369-2378.	5.4	76
33	Image Analysis of Elastomer Morphology in Toughened Thermoplastic and Thermoset Resins. Polymers and Polymer Composites, 2005, 13, 669-680.	1.9	1
34	Natural and artificial aging of polypropyleneâ€“polyethylene copolymers. Journal of Applied Polymer Science, 2003, 87, 1685-1692.	2.6	25
35	Effects of different treatments on the interface of HDPE/lignocellulosic fiber composites. Composites Science and Technology, 2003, 63, 161-169.	7.8	283
36	Zinc-induced Decrease of the Thermal Stability and Regeneration of Rhodopsin. Journal of Biological Chemistry, 2003, 278, 4719-4724.	3.4	31

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37	Determination of small interactions in polymer composites by means of FTIR and DSC. Polymer Bulletin, 2000, 44, 293-300.	3.3	24
38	STUDY OF THE CURING PROCESS OF AN EPOXY RESIN BY FTIR SPECTROSCOPY. Polymer-Plastics Technology and Engineering, 2000, 39, 937-943.	1.9	37
39	Changes in Crystallinity of the HDPE Matrix in Composites with Cellulosic Fiber Using DSC and FTIR. Journal of Reinforced Plastics and Composites, 2000, 19, 818-830.	3.1	32