

# Francisco Javier Cañavate

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Effects of different treatments on the interface of HDPE/lignocellulosic fiber composites. <i>Composites Science and Technology</i> , 2003, 63, 161-169.	7.8	283
2	Composites reinforced with reused tyres: Surface oxidant treatment to improve the interfacial compatibility. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 44-50.	7.6	115
3	FTIR spectroscopic and thermogravimetric characterization of ground tyre rubber devulcanized by microwave treatment. <i>Polymer Testing</i> , 2016, 52, 200-208.	4.8	91
4	Microwave treatment in waste rubber recycling – recent advances and limitations. <i>EXPRESS Polymer Letters</i> , 2019, 13, 565-588.	2.1	79
5	Structural and mechanical studies on modified reused tyres composites. <i>European Polymer Journal</i> , 2006, 42, 2369-2378.	5.4	76
6	Structural and physico-mechanical properties of natural rubber/GTR composites devulcanized by microwaves: Influence of GTR source and irradiation time. <i>Journal of Composite Materials</i> , 2018, 52, 3099-3108.	2.4	50
7	Effect of the particle size and acid pretreatments on compatibility and properties of recycled HDPE plastic bottles filled with ground tyre powder. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1882-1890.	2.6	46
8	STUDY OF THE CURING PROCESS OF AN EPOXY RESIN BY FTIR SPECTROSCOPY. <i>Polymer-Plastics Technology and Engineering</i> , 2000, 39, 937-943.	1.9	37
9	Changes in Crystallinity of the HDPE Matrix in Composites with Cellulosic Fiber Using DSC and FTIR. <i>Journal of Reinforced Plastics and Composites</i> , 2000, 19, 818-830.	3.1	32
10	Zinc-induced Decrease of the Thermal Stability and Regeneration of Rhodopsin. <i>Journal of Biological Chemistry</i> , 2003, 278, 4719-4724.	3.4	31
11	Properties of Regenerated Cellulose Lyocell Fiber-Reinforced Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 359-371.	3.1	30
12	Acoustic and mechanical properties of recycled polyvinyl chloride/ground tyre rubber composites. <i>Journal of Composite Materials</i> , 2014, 48, 1061-1069.	2.4	28
13	Investigating the Impact of Curing System on Structure-Property Relationship of Natural Rubber Modified with Brewery By-Product and Ground Tire Rubber. <i>Polymers</i> , 2020, 12, 545.	4.5	27
14	Synergistic Effects of Bitumen Plasticization and Microwave Treatment on Short-Term Devulcanization of Ground Tire Rubber. <i>Polymers</i> , 2018, 10, 1265.	4.5	26
15	Natural and artificial aging of polypropylene-polyethylene copolymers. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1685-1692.	2.6	25
16	Determination of small interactions in polymer composites by means of FTIR and DSC. <i>Polymer Bulletin</i> , 2000, 44, 293-300.	3.3	24
17	The Use of Waxes and Wetting Additives to Improve Compatibility Between HDPE and Ground Tyre Rubber. <i>Journal of Composite Materials</i> , 2010, 44, 1233-1245.	2.4	24
18	Study of the influence of IPPD on thermo-oxidation process of elastomeric hose. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2011-2018.	2.6	23

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19	Preliminary Investigation on Auto-Thermal Extrusion of Ground Tire Rubber. <i>Materials</i> , 2019, 12, 2090.	2.9	23
20	Assessment of the devulcanization process of EPDM waste from roofing systems by combined thermomechanical/microwave procedures. <i>Polymer Degradation and Stability</i> , 2021, 183, 109450.	5.8	21
21	Biocomposites using waste whole chicken feathers and thermoplastic matrices. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1419-1429.	3.1	20
22	Reactive Sintering of Ground Tire Rubber (GTR) Modified by a Trans-Polyoctenamer Rubber and Curing Additives. <i>Polymers</i> , 2020, 12, 3018.	4.5	20
23	Environmental impact assessment of sound absorbing nonwovens based on chicken feathers waste. <i>Resources, Conservation and Recycling</i> , 2019, 149, 489-499.	10.8	18
24	Changes in Properties of Cement and Lime Mortars When Incorporating Fibers from End-of-Life Tires. <i>Fibers</i> , 2016, 4, 7.	4.0	17
25	Effect of chemical treatments and additives on properties of chicken feathers thermoplastic biocomposites. <i>Journal of Composite Materials</i> , 2018, 52, 3637-3653.	2.4	14
26	Curing epoxy with ethylenediaminetetraacetic acid (EDTA) surface-functionalized Co Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. <i>Progress in Organic Coatings</i> , 2019, 136, 105248.	3.9	14
27	Reclaimed Rubber/Poly( $\mu$ -caprolactone) Blends: Structure, Mechanical, and Thermal Properties. <i>Polymers</i> , 2020, 12, 1204.	4.5	14
28	Properties and optimal manufacturing conditions of chicken feathers/poly(lactic acid) biocomposites. <i>Journal of Composite Materials</i> , 2016, 50, 1671-1683.	2.4	13
29	GTR/Thermoplastics Blends: How Do Interfacial Interactions Govern Processing and Physico-Mechanical Properties?. <i>Materials</i> , 2022, 15, 841.	2.9	13
30	Isothermal Vulcanization and Non-Isothermal Degradation Kinetics of XNBR/Epoxy/XNBR-g-Halloysite Nanotubes (HNT) Nanocomposites. <i>Materials</i> , 2021, 14, 2872.	2.9	10
31	Properties and optimal manufacturing conditions of chicken feathers thermoplastic biocomposites. <i>Journal of Composite Materials</i> , 2015, 49, 295-308.	2.4	5
32	GTR/NBR/Silica Composites Performance Properties as a Function of Curing System: Sulfur versus Peroxides. <i>Materials</i> , 2021, 14, 5345.	2.9	5
33	Towards Circular Economy by the Valorization of Different Waste Subproducts through Their Incorporation in Composite Materials: Ground Tire Rubber and Chicken Feathers. <i>Polymers</i> , 2022, 14, 1090.	4.5	4
34	Humanitarian Engineering in Spain: Ingenieros sin Fronteras. <i>IEEE Technology and Society Magazine</i> , 2010, 29, 12-19.	0.8	3
35	CHAPTER 2. Surface Treatment of Rubber Waste. <i>RSC Green Chemistry</i> , 2018, , 24-55.	0.1	2
36	Circular Economy Assessment in Recycling of LLDPE Bags According to European Resolution, Thermal and Structural Characterization. <i>Polymers</i> , 2022, 14, 754.	4.5	2

#	ARTICLE	IF	CITATIONS
37	Image Analysis of Elastomer Morphology in Toughened Thermoplastic and Thermoset Resins. <i>Polymers and Polymer Composites</i> , 2005, 13, 669-680.	1.9	1
38	Thermoplastic elastomers including ground tyre rubber in a thermoplastic matrix. <i>World Journal of Engineering</i> , 2011, 8, 165-170.	1.6	0
39	Reactive Processing and Functionalization of Ground Tire Rubber. , 2020, , 43-63.		0