

# Marzocca Aj

## List of Publications by Year in descending order

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56  
papers

1,304  
citations

304743

22  
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377865

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all docs

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docs citations

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times ranked

967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of the polymer-solvent interaction parameter $\chi$ for the system cured styrene butadiene rubber and toluene. <i>European Polymer Journal</i> , 2007, 43, 2682-2689.	5.4	116
2	Carbon nanotubes as reinforcement of styrene-butadiene rubber. <i>Applied Surface Science</i> , 2007, 254, 262-265.	6.1	91
3	Evaluation of the polymer-solvent interaction parameter $\chi$ for the system cured polybutadiene rubber and toluene. <i>Polymer Testing</i> , 2010, 29, 119-126.	4.8	71
4	Dependence of the network structure of cured styrene butadiene rubber on the sulphur content. <i>Polymer</i> , 2004, 45, 6037-6044.	3.8	66
5	Accelerator adsorption onto carbon nanotubes surface affects the vulcanization process of styrene-butadiene rubber composites. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2851-2857.	2.6	46
6	Measurement of the Young's modulus in particulate epoxy composites using the impulse excitation technique. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4619-4623.	5.6	46
7	Yield and internal stresses in aluminum filled epoxy resin. A compression test and positron annihilation analysis. <i>Polymer</i> , 2003, 44, 3193-3199.	3.8	44
8	Cure kinetics and swelling behaviour in polybutadiene rubber. <i>Polymer Testing</i> , 2010, 29, 477-482.	4.8	43
9	Thermal aging of carbon black filled rubber compounds. I. Experimental evidence for bridging flocculation. <i>Polymer</i> , 2003, 44, 7229-7240.	3.8	40
10	Thermal properties in cured natural rubber/styrene butadiene rubber blends. <i>European Polymer Journal</i> , 2008, 44, 1525-1534.	5.4	40
11	Vulcanization kinetic of styrene-butadiene rubber by sulfur/TBBS. <i>Journal of Applied Polymer Science</i> , 2006, 101, 35-41.	2.6	38
12	Analysis of network structure formed in styrene-butadiene rubber cured with sulfur/TBBS system. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1105-1112.	2.6	37
13	Influence of vulcanization temperature on the cure kinetics and on the microstructural properties in natural rubber/styrene-butadiene rubber blends prepared by solution mixing. <i>European Polymer Journal</i> , 2015, 69, 50-61.	5.4	37
14	Effect of entanglements in the microstructure of cured NR/SBR blends prepared by solution and mixing in a two-roll mill. <i>European Polymer Journal</i> , 2016, 81, 365-375.	5.4	33
15	Natural rubber/styrene-butadiene rubber blends prepared by solution mixing: Influence of vulcanization temperature using a Semi-EV sulfur curing system on the microstructural properties. <i>Polymer Testing</i> , 2017, 63, 150-157.	4.8	33
16	Analysis of thermal diffusivity in aluminum (particle)-filled PMMA compounds. <i>Polymer</i> , 2001, 42, 5267-5274.	3.8	32
17	A study about the structure of vulcanized natural rubber/styrene butadiene rubber blends and the glass transition behavior. <i>Journal of Applied Polymer Science</i> , 2012, 125, 992-999.	2.6	29
18	Analysis of the variation of molecular parameters of NR during vulcanization in the frame of the conformational tube model. <i>Journal of Applied Polymer Science</i> , 1997, 66, 1085-1092.	2.6	27

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19	An analysis of the influence of the accelerator/sulfur ratio in the cure reaction and the uniaxial stress-strain behavior of SBR. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2601-2609.	2.6	27
20	Temperature dependence on free volume in cured natural rubber and styrene-butadiene rubber blends. <i>Physical Review E</i> , 2011, 83, 051805.	2.1	26
21	A numerical simulation of the electrical resistivity of carbon black filled rubber. <i>Polymer</i> , 2000, 41, 6589-6595.	3.8	24
22	Some considerations concerning the dynamic mechanical properties of cured styrene-butadiene rubber/polybutadiene blends. <i>Polymer International</i> , 2000, 49, 216-222.	3.1	23
23	Evolution of the crosslink structure in the elastomers NR and SBR. <i>Radiation Physics and Chemistry</i> , 2007, 76, 142-145.	2.8	21
24	Characterization of free volume in particulate-filled epoxy resin by means of dynamic mechanical analysis and positron annihilation lifetime spectroscopy. <i>Polymer International</i> , 2002, 51, 1277-1284.	3.1	20
25	Evolution of the free volume and glass transition temperature with the degree of cure of polybutadiene rubbers. <i>Polymer Testing</i> , 2013, 32, 686-690.	4.8	19
26	Glass-transition and secondary relaxation in SBR-1502 from dynamic mechanical data. <i>Polymer</i> , 2000, 41, 2227-2230.	3.8	18
27	Creep of cold-worked Zry-4 at 673 K. <i>Journal of Nuclear Materials</i> , 1981, 97, 323-332.	2.7	17
28	Comparative study of thermal, mechanical and structural properties of polybutadiene rubber isomers vulcanized using peroxide. <i>Polymer Testing</i> , 2016, 52, 117-123.	4.8	17
29	A SAXS and swelling study of cured natural rubber/styrene-butadiene rubber blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2320-2327.	2.1	16
30	Influence of the cure level on the monomeric friction coefficient of natural rubber vulcanizates. <i>Polymer International</i> , 2004, 53, 646-655.	3.1	14
31	Influence of the microstructure of vulcanized polybutadiene rubber on the dielectric properties. <i>Polymer Testing</i> , 2011, 30, 657-662.	4.8	14
32	Finite element analysis of cure in a rubber cylinder. <i>Polymer</i> , 1991, 32, 1456-1460.	3.8	13
33	Contribution of the Methine Group to the Transverse 1H NMR Relaxation in Vulcanized Natural Rubbers. <i>Macromolecules</i> , 2004, 37, 5624-5629.	4.8	13
34	Creep and stress-relaxation in bending, at 673 K, of cold-worked Zircaloy-4. <i>Journal of Nuclear Materials</i> , 1981, 98, 322-328.	2.7	12
35	Silica-filled SBR with epoxidized soybean oil: Influence of the mixing process on rheological and mechanical properties of the compound. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48504.	2.6	12
36	Creep of stress-relieved Zry-4 at 673 K. <i>Journal of Nuclear Materials</i> , 1983, 118, 224-233.	2.7	11

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37	Estimation by mechanical analysis of the molecular parameters of SBR vulcanizates at different cure conditions. <i>Journal of Applied Polymer Science</i> , 1995, 58, 1839-1845.	2.6	11
38	Dynamic properties in aluminum filled PMMA. <i>Polymer</i> , 1999, 40, 1495-1500.	3.8	11
39	Dynamical mechanical properties of polymethylmethacrylate after exposure to <sup>60</sup> Co gamma radiation. <i>Polymer Testing</i> , 1997, 16, 7-18.	4.8	10
40	Evolution of texture during creep of Zircaloy-4 at 673 K. <i>Journal of Nuclear Materials</i> , 1984, 125, 249-257.	2.7	9
41	About the activation energies of the main and secondary relaxations in cured styrene butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2009, 113, 2361-2367.	2.6	9
42	About the cure kinetics in natural rubber/styrene Butadiene rubber blends at 433K. <i>Physica B: Condensed Matter</i> , 2012, 407, 3271-3273.	2.7	9
43	Influence of carbon black dispersion on the thermal diffusivity of an SBR vulcanizate. <i>Journal of Applied Polymer Science</i> , 1999, 72, 1379-1385.	2.6	8
44	Ratio of cell diameter to dislocation spacing for creep of Zircaloy-4. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983, 48, 759-766.	0.6	7
45	Thermal expansion and glass transition of polymethylmethacrylate after exposure to <sup>60</sup> Co gamma irradiation. <i>Polymer Testing</i> , 1996, 15, 179-187.	4.8	7
46	Apparent activation energy for creep controlled by jog-drag and cell-formation. <i>Journal of Nuclear Materials</i> , 1983, 119, 78-81.	2.7	6
47	Representation of creep and stress-relaxation data either in terms of harts phenomenological theory or a hyperbolic sine equation. <i>Journal of Nuclear Materials</i> , 1981, 99, 317-319.	2.7	5
48	Evaluation of the thermal diffusivity of rubber compounds through the glass transition range. <i>Journal of Applied Polymer Science</i> , 1997, 63, 157-162.	2.6	5
49	Alpha (Vitrea) Transition in Vulcanized Natural Rubber/Styrene Butadiene Rubber Blends Prepared by Mechanical and Solution Mixing. <i>Solid State Phenomena</i> , 0, 184, 405-410.	0.3	5
50	A high frequency resonant method for the determination of the dynamic mechanical properties of solid polymers. <i>Polymer</i> , 1992, 33, 2709-2714.	3.8	4
51	On apparent activation energies of creep in nickel-base superalloys. <i>Scripta Materialia</i> , 1999, 41, 797-802.	5.2	4
52	Highly epoxidized soybean oil in replacement of mineral oil for high performance on silica-filled tread rubber compounds. <i>Journal of Elastomers and Plastics</i> , 2022, 54, 169-184.	1.5	3
53	Optimization of sensor arrays for beam position estimation. <i>Sensors and Actuators A: Physical</i> , 2000, 87, 11-18.	4.1	2
54	Effect of electron beam irradiation on the thermal vulcanization of a natural rubber compound. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47216.	2.6	2

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55	CHANGES IN THE MECHANICAL, MICRO-, AND NANO-STRUCTURAL PROPERTIES OF REINFORCED VULCANIZED NATURAL RUBBER COMPOUNDS: THEIR DEPENDENCE ON THE SiO <sub>2</sub> /CB RATIO. Rubber Chemistry and Technology, 2021, , .	1.2	1
56	Prediction of tensile curves, at 673 K, of cold-worked and stress-relieved Zircaloy-4 from creep data. Journal of Nuclear Materials, 1986, 138, 277-285.	2.7	0