

Radek StoÄek

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

370
citations

933264

10
h-index

839398

18
g-index

33
all docs

33
docs citations

33
times ranked

238
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of "expanded clay" on the microstructure and fatigue crack growth behavior of carbon black filled NR composites. <i>Composites Science and Technology</i> , 2013, 76, 61-68.	3.8	57
2	Investigation of fatigue crack growth characteristics of NR/BR blend based tyre tread compounds. <i>International Journal of Fracture</i> , 2014, 188, 9-21.	1.1	49
3	Analysis of Dynamic Crack Propagation in Elastomers by Simultaneous Tensile- and Pure-Shear-Mode Testing. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2013, , 269-301.	2.0	24
4	Study of tribological properties of natural rubber containing carbon nanotubes and carbon black as hybrid fillers. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 899-906.	1.6	23
5	Characterizing the Intrinsic Strength (Fatigue Threshold) of Natural Rubber/Butadiene Rubber Blends. <i>Tire Science and Technology</i> , 2019, 47, 292-307.	0.3	19
6	Characterisation of ground tyre rubber by using combination of FT-IR numerical parameter and DTG analysis to determine the composition of ternary rubber blend. <i>Polymer Testing</i> , 2017, 59, 308-315.	2.3	17
7	Characterisation and micromechanical modelling of the elasto-viscoplastic behavior of thermoplastic elastomers. <i>Mechanics of Materials</i> , 2014, 71, 114-125.	1.7	15
8	Dynamic behavior of short aramid fiber-filled elastomer composites. <i>Polymer Engineering and Science</i> , 2014, 54, 2958-2964.	1.5	13
9	Facilitating high-temperature curing of natural rubber with a conventional accelerated-sulphur system using a synergistic combination of bismaleimides. <i>EXPRESS Polymer Letters</i> , 2021, 15, 16-27.	1.1	11
10	The Fatigue Threshold of Rubber and Its Characterization Using the Cutting Method. <i>Advances in Polymer Science</i> , 2020, , 57-83.	0.4	11
11	Electrical conductivity degradation of fatigued carbon black reinforced natural rubber composites: Effects of carbon nanotubes and strain amplitudes. <i>EXPRESS Polymer Letters</i> , 2019, 13, 1116-1124.	1.1	10
12	An advanced method for calculation of infrared parameter to quantitatively identify rubber grade in a multi-component rubber blend. <i>Polymer Testing</i> , 2019, 73, 308-315.	2.3	10
13	Reversion free high-temperature vulcanization of cis-polybutadiene rubber with the accelerated-sulfur system. <i>EXPRESS Polymer Letters</i> , 2020, 14, 823-837.	1.1	10
14	Tearing Energy as Fracture Mechanical Quantity for Elastomers. <i>Advances in Polymer Science</i> , 2016, , 361-398.	0.4	9
15	Rheometer Evidences for the Co-Curing Effect of a Bismaleimide in Conjunction with the Accelerated Sulfur on Natural Rubber/Chloroprene Rubber Blends. <i>Polymers</i> , 2021, 13, 1510.	2.0	9
16	Determining Parametrical Functions Defining the Deformations of a Plane Strain Tensile Rubber Sample. <i>Advances in Polymer Science</i> , 2020, , 19-38.	0.4	9
17	Characterisation of cut and chip behaviour for NR, SBR and BR compounds with an instrumented laboratory device. <i>Plastics, Rubber and Composites</i> , 2019, 48, 14-23.	0.9	8
18	Determination of compounding formulation of cured rubber by reverse engineering. <i>Polymer Engineering and Science</i> , 2015, 55, 1450-1458.	1.5	6

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19	Fatigue Crack Growth vs. Chip and Cut Wear of NR and NR/SBR Blend-Based Rubber Compounds. <i>Advances in Polymer Science</i> , 2020, , 225-244.	0.4	6
20	Cut & chip wear of rubbers in a range from low up to high severity conditions. <i>Applied Surface Science Advances</i> , 2021, 6, 100152.	2.9	6
21	Smart numerical method for calculation of simple general infrared parameter identifying binary rubber blends. <i>Polymer Testing</i> , 2017, 57, 192-202.	2.3	5
22	Finite Element Modeling and Critical Plane Analysis of a Cut-and-Chip Experiment for Rubber. <i>Tire Science and Technology</i> , 2020, , .	0.3	5
23	Identifying the Co-Curing Effect of an Accelerated-Sulfur/Bismaleimide Combination on Natural Rubber/Halogenated Rubber Blends Using a Rubber Process Analyzer. <i>Polymers</i> , 2021, 13, 4329.	2.0	5
24	Study of friction and wear of thermoplastic vulcanizates: the correlation with abraded surfaces topology. <i>Journal of Physics: Conference Series</i> , 2017, 843, 012070.	0.3	4
25	Influence of Ultraviolet Radiation on Mechanical Properties of a Photoinitiator Compounded High Vinyl Styreneâ€“Butadieneâ€“Styrene Block Copolymer. <i>Polymers</i> , 2021, 13, 1287.	2.0	4
26	Influence of Thermal Ageing Process on the Crack Propagation of Rubber Used for Tire Application. <i>Springer Series in Materials Science</i> , 2017, , 351-364.	0.4	4
27	The Influence of Local Strain Distribution on the Effective Electrical Resistance of Carbon Black Filled Natural Rubber. <i>Polymers</i> , 2021, 13, 2411.	2.0	3
28	The Effect of Polyglycols on the Fatigue Crack Growth of Silica-Filled Natural Rubber. <i>Advances in Polymer Science</i> , 2020, , 39-55.	0.4	2
29	Configuration of Novel Experimental Fractographic Reverse Engineering Approach Based on Relationship between Spectroscopy of Ruptured Surface and Fracture Behaviour of Rubber Sample. <i>Materials</i> , 2020, 13, 4445.	1.3	2
30	Undesirable Aspects of Fatigue on Stretchable Elastomer Sensors. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 95-105.	0.2	2
31	A Study of Correlation between Crack Initiation during Dynamic Wear Process and Fatigue Crack Growth of Reinforced Rubber Materials. <i>Conference Papers in Science</i> , 2015, 2015, 1-6.	0.3	1