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Reinforcement of natural rubber with silica/carbon black hybrid filler

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#	Paper	IF	Citations
390	Use of carboxylated nitrile rubber and natural rubber blends as retreading compound for OTR tires. <i>Polymer Engineering and Science</i> , <b>2008</b> , 48, 2410-2417	2.3	18
389	Silica-reinforced natural rubber prepared by the solgel process of ethoxysilanes in rubber latex. Journal of Applied Polymer Science, <b>2008</b> , 109, 424-433	2.9	44
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386	Physico-chemical analysis of flexible polyurethane foams containing commercial calcium carbonate. <b>2008</b> , 11, 433-438		23
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233	The Effect of High Loaded Multiwall Carbon Nanotubes in Natural Rubber and Their Nonlinear Material Constants. <b>2017</b> , 2017, 1-15		19
232	Using recycled polymers for the preparation of polymer nanocomposites: Properties and applications. <b>2017</b> , 197-226		2
231	Mechanical properties and mophology natural rubber blend with bentonit and carbon black. <b>2017</b> , 223, 012003		8
230	Preparation and properties of natural rubber reinforced with polydopamine-coating modified carbon nanotubes. <b>2017</b> , 11, 21-34		12

229	Studies on cure index, swelling behaviour, tensile and thermooxidative properties of natural rubber compounds in the presence of alkanolamide. <b>2018</b> , 309, 012060		3
228	Reinforcement of solution styrene-butadiene rubber by incorporating hybrids of rice bran carbon and surface modified fumed silica. <b>2018</b> , 24, E194-E200		9
227	Tensile, thermal, flammability and morphological properties of sepiolite filled ethylene propylene diene monomer (EDPM) rubber composites. <i>Iranian Polymer Journal (English Edition)</i> , <b>2018</b> , 27, 287-296	2.3	5
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225	Sustainable synthesis of uniform silica microspheres from green liquor of wheat straw pulping and application in natural rubber. <b>2018</b> , 10, 015701		
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217	Complete replacement of carbon black filler in rubber sole with CaO embedded activated carbon derived from tannery solid waste. <b>2018</b> , 170, 446-450		24
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213	Lubrication and plasticization behavior of large-size micro-spherical structured SiO for natural rubber <b>2018</b> , 8, 31783-31792		1
212	Characteristics of Tire Wear Particles Generated by a Tire Simulator under Various Driving Conditions. <b>2018</b> , 52, 12153-12161		33

211	Catalyst driven preferential growth of in-situ generated nanosilica particles in the phases of incompatible polymer blend and its effect on physico-mechanical properties. <i>Polymer</i> , <b>2018</b> , 156, 186-20	<b>3</b> :9	3
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209	Mesoscale Simulations of the Rheology of Filled Styrene <b>B</b> utadiene Compounds. <b>2018</b> , 27, 1800014		
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206	Synthesis and characterization of natural rubber/coal fly ash composites via latex aqueous microdispersion. <b>2019</b> , 21, 134-144		10
205	Ageing simulation of a hydraulic engine mount: A data-informed finite element approach. <b>2019</b> , 233, 2432-2442		3
204	Improvements in the degree of filler dispersion and tensile properties of N550 and N220 carbon blacks-filled natural rubber composites using alkanolamide. <b>2019</b> , 505, 012124		
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199	Electron beam radiation curing of natural rubber filled with silica-graphene mixture prepared by latex mixing. <i>Industrial Crops and Products</i> , <b>2019</b> , 141, 111789	5.9	8
198	Natural rubber latex foam with particulate fillers for carbon dioxide adsorption and regeneration <b>2019</b> , 9, 28916-28923		11
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189	Sustainable Use of Chloroprene Rubber Waste as Blend Component with Natural Rubber, Epoxidized Natural Rubber and Styrene Butadiene Rubber. <b>2019</b> , 27, 2119-2130		2
188	Mechanical properties and microstructure characterization of natural rubber reinforced by helical carbon nanofibers. <b>2019</b> , 54, 12962-12971		12
187	Moisture Diffusion in Silica/Clay/Natural Rubber Hybrid Composites. <b>2019</b> , 22, 9-18		1
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182	Atomistic Descriptions of the cis-1,4-Polybutadiene/Silica Interfaces. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 969-981	4.3	14
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176	The formation of fibrous structure of polyamide 6 induced by the three-step forming process and its prominent reinforcement in nitrile rubber. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 47472	2.9	1

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174	Enhancing tensile strength of styrene butadiene rubber using alkanolamide. <b>2019</b> , 509, 012053		1
173	The effect of carbon black composition in natural rubber compound. <b>2019</b> , 16, 100566		30
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166	Modeling and interpreting large deformation behavior of rubber nanocomposites containing carbon nanotubes and nanoplatelets. <i>Polymer Composites</i> , <b>2019</b> , 40, E1548-E1558	3	4
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161	An innovative approach to utilize waste silica fume from zirconia industry to prepare high performance natural rubber composites for multi-functional applications. <i>Polymer Testing</i> , <b>2020</b> , 81, 106172	4.5	10
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158	Interfacial Interactions of Silica and Natural Rubber Enhanced by Hydroxyl Telechelic Natural Rubber as Interfacial Modifier. <b>2020</b> , 26, 291-303		1

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156	Self-assembled lignin-silica hybrid material derived from rice husks as the sustainable reinforcing fillers for natural rubber. <b>2020</b> , 145, 410-416		14
155	Styrenated phenol modified nanosilica for improved thermo-oxidative and mechanical properties of natural rubber. <i>Polymer Testing</i> , <b>2020</b> , 82, 106302	4.5	5
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151	Radiation Processing and Characterization of Some Ethylene-propylene-diene Terpolymer/Butyl (Halobutyl) Rubber/Nanosilica Composites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
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148	A functional modified graphene oxide/nanodiamond/nano zinc oxide composite for excellent vulcanization properties of natural rubber <b>2020</b> , 10, 41857-41870		6
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142	Effect of mineral fillers on physico-mechanical properties and heat conductivity of carbon black-filled SBR/butadiene rubber composite. <i>Iranian Polymer Journal (English Edition)</i> , <b>2020</b> , 29, 957-97	74 <sup>2.3</sup>	3
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139	Visualization of chemical bonding in a silica-filled rubber nanocomposite using STEM-EELS. <b>2020</b> , 10, 21558		2
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136	The Effects of Various Ratios of Hybrid Filler to Rubber Vulcanisates Properties Based on Passenger Car Tyre Tread Compounds. <b>2020</b> , 856, 169-174		
135	Water Absorption Kinetics in Natural Rubber Composites Reinforced with Natural Fibers Processed by Electron Beam Irradiation. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5
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128	Friction, Abrasion and Crack Growth Behavior of In-Situ and Ex-Situ Silica Filled Rubber Composites. <i>Materials</i> , <b>2020</b> , 13,	3.5	9
127	Silica dispersion and properties of silica filled ESBR/BR/NR ternary blend composites by applying wet masterbatch technology. <i>Polymer Testing</i> , <b>2020</b> , 84, 106350	4.5	4
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117	Cross-Linked Density Determination of Natural Rubber Compounds by Different Analytical Techniques. <b>2021</b> , 24,		2
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115	Silica-graphene oxide reinforced rubber composites. <i>Materials Today: Proceedings</i> , <b>2021</b> , 34, 502-505	1.4	6
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113	Aramid nanofiber reinforced nitrile rubber assisted by cellulose nanocrystals. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50546	2.9	3
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110	The Effect of Silica Nanofiller on the Physical and Thermal Characteristics of Rubber-Based Composites. <i>International Polymer Processing</i> , <b>2021</b> , 36, 60-68	1	1
109	Effects of Molecular Weight of Functionalized Liquid Butadiene Rubber as a Processing Aid on the Properties of SSBR/Silica Compounds. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
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93	Effect of phase selective wetting of hybrid filler on the self-healing properties of rubber blends. <i>Polymer</i> , <b>2021</b> , 231, 124146	3.9	1
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