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Effect of carbon-based nanoparticles on the cure characteristics and network structure of styrenebutadiene rubber vulcanizate

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#	Paper	IF	Citations
42	Utilization of silane functionalized carbon nanotubes-silica hybrids as novel reinforcing fillers for solution styrene butadiene rubber. <i>Polymer Composites</i> , 2013 , 34, 690-696	3	29
41	Cure kinetic and network structure of NR/SBR composites reinforced by multiwalled carbon nanotube and carbon blacks. <i>Thermochimica Acta</i> , 2013 , 566, 238-248	2.9	40
40	Preparation and properties of carbon nanotube composites with nitrile- and styrene-butadiene rubbers. <i>Polymer Engineering and Science</i> , 2013 , 53, 849-856	2.3	17
39	Mechanical Properties of Natural Rubber Nanocomposites Filled with Thermally Treated Attapulgate. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-11	3.2	12
38	Manufacturing and properties of Carbon Nanotube Composites with Nbr, Sbr and Nr. <i>International Polymer Science and Technology</i> , 2013 , 40, T1-T8		
37	Optical Properties Investigation of Alternative Fuels Containing Carbon-Based Nanostructures. 2014 ,		5
36	Effect of plasticizer and curing system on freezing resistance of rubbers. <i>Journal of Applied Polymer Science</i> , 2014 , 131,	2.9	16
35	Vulcanization kinetics of nano-silica filled styrene butadiene rubber. <i>Polymer</i> , 2014 , 55, 6426-6434	3.9	75
34	Carbon nanotube based elastomer composites [An approach towards multifunctional materials. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8446-8485	7.1	139
33	Impacts of filler covalent and non-covalent modification on the network structure and mechanical properties of carbon/silica dual phase filler/natural rubber. <i>Polymers for Advanced Technologies</i> , 2015 , 26, 1168-1175	3.2	14
32	Reinforcing mechanisms of carbon nanotubes and high structure carbon black in natural rubber/styrene-butadiene rubber blend prepared by mechanical mixing [Effect of bound rubber. <i>Polymer International</i> , 2015 , 64, 1627-1638	3.3	28
31	The mechanism of carbon/silica dual phase filler modified by ionic liquid and its reinforcing on natural rubber. <i>Polymer Composites</i> , 2015 , 36, 1721-1730	3	17
30	Styrene Butadiene Rubber/Carbon Filler-Based Vapor Sensors. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1149-1160	2.6	8
29	Effect of coal gangue/carbon black/multiwall carbon nanotubes hybrid fillers on the properties of natural rubber composites. <i>Polymer Composites</i> , 2016 , 37, 3083-3092	3	7
28	Vulcanization kinetics and reversion behavior of natural rubber/styrene-butadiene rubber blend filled with nanodiamond [the role of sulfur curing system. <i>European Polymer Journal</i> , 2016 , 81, 98-113	5.2	61
27	Constitutive modeling of carbon nanotube rubber composites on the basis of chain length statistics. <i>Composites Part B: Engineering</i> , 2016 , 90, 69-75	10	8
26	Network structure and mechanical properties of polydimethylsiloxane filled with nanodiamond [Effect of degree of silanization of nanodiamond. <i>Composites Science and Technology</i> , 2017 , 142, 227-234	8.6	26

25	Influence of ionic liquid on the polymer/filler coupling and mechanical properties of nano-silica filled elastomer. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	5
24	Impact of various oxidation degrees of graphene oxide on the performance of styrene/Butadiene rubber nanocomposites. <i>Polymer Engineering and Science</i> , 2018 , 58, 1409-1418	2.3	12
23	Catalytic and networking effects of carbon black on the kinetics and conversion of sulfur vulcanization in styrene butadiene rubber. <i>Soft Matter</i> , 2018 , 14, 9194-9208	3.6	25
22	Chlorinated styrene butadiene rubber/ zinc sulfide: novel nanocomposites with unique properties-structural, flame retardant, transport and dielectric properties. <i>Journal of Polymer Research</i> , 2018 , 25, 1	2.7	11
21	Impacts of interfacial interaction on properties of melamine formaldehyde microsphere/rubber: I. filler dispersion and curing dynamic. <i>Plastics, Rubber and Composites</i> , 2018 , 47, 337-344	1.5	
20	Influence of melamine formaldehyde microsphere on the vulcanization kinetics and mechanical properties of nitrile butadiene rubber. <i>Journal of Elastomers and Plastics</i> , 2019 , 51, 143-156	1.6	
19	The role of interface in gas barrier properties of styrene butadiene rubber-reduced graphene oxide composites. <i>Polymer</i> , 2019 , 182, 121816	3.9	17
18	Silica nanoparticles reinforced natural rubber latex composites: The effects of silica dimension and polydispersity on performance. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47449	2.9	17
17	Enhancing physico-mechanical and antibacterial properties of natural rubber using synthesized Ag-SiO nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 3243-3249	7.9	13
16	Segmental relaxations and other insights into filler-mediated interactions for carbon black-filled polybutadiene rubber. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49244	2.9	2
15	Effect of the silica-rubber interface on the mechanical, viscoelastic, and tribological behaviors of filled styrene-butadiene rubber vulcanizates. <i>Polymer Journal</i> , 2020 , 52, 1223-1234	2.7	12
14	Silica dispersion and properties of silica filled ESBR/BR/NR ternary blend composites by applying wet masterbatch technology. <i>Polymer Testing</i> , 2020 , 84, 106350	4.5	4
13	Effects of modified poly(tetrafluoroethylene) on the physico-mechanical and tribological properties of carbon-black filled nitrile-butadiene rubber. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50061	2.9	3
12	Coupling Agents Based on Single-Walled CNTs for Polyvinylchloride Wood-Polymer Composites. <i>Lecture Notes in Civil Engineering</i> , 2021 , 318-324	0.3	
11	Facile preparation of hydrogenated nitrile butadiene rubber/reduced graphene oxide nanocomposite with one-pot reduction approach via the latex way. <i>Colloid and Polymer Science</i> , 2021 , 299, 1703	2.4	0
10	Effect of Nanographene on the Curing Behavior and Rheological Properties of NBR/Phenolic Compounds. 2020 , 621-624		1
9	Wet Mixing with Organic Solvent for Synthesized cis-1,4-Polyisoprene-Based Rubber Composites. <i>ACS Omega</i> , 2020 , 5, 30444-30453	3.9	3
8	Continuous mixing process and properties of NR/CB nanocomposites based on elongational rheology. <i>Composites Part B: Engineering</i> , 2022 , 234, 109705	10	1

7	Tire tread performance of silica-filled SBR/BR rubber composites incorporated with nanodiamond and nanodiamond/nano-SiO ₂ hybrid nanoparticle. <i>Diamond and Related Materials</i> , 2022 , 109068	3.5	○
6	Modification of Wood-Polymer Composites with Silica Sols of Different Nature. 2023 , 201-208		○
5	The Effects of CarbonSilica Dual-Phase Filler on the Crosslink Structure of Natural Rubber. 2022 , 14, 3897		○
4	Superior fatigue and mechanical properties of ethylene-propylene diene monomer rubber incorporated with Zr-based metalorganic framework. 2023 , 30,		○
3	Evaluating corn-based biochar as an alternative to carbon black in styrene-butadiene rubber composites. 2023 , 34, 105218		○
2	Enhanced dielectric constant and mechanical investigation of epoxidized natural rubber with TM-doped CeO ₂ nanocomposites. 2023 , 939, 168601		○
1	Elucidation of segmental relaxations of silica-filled cis -polybutadiene rubber composites.		○